

# International Science Center

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ISC Links are below:

## Our Future Awaits

### Gateways

- . Home - Welcome
- . Statement of Purpose
- . Master Index
- . Space Science Matrix
- . Earth Science Matrix
- . Ocean Science Matrix
- . New Technology News
- . Engineering Matrix
- . Colleges & University
- . Health Care Systems
- . Medical Science Matrix
- . [Environmental Science](#)
- . Photo Gallery – Space
- . Photo Gallery – Earth
- . Photo Gallery – Ocean
- . Video Gallery

. [Environmental Science](#)

### Aviary

#### Languages Planned

- . [English](#) . [Français](#)
- . [Deutsch](#) . [Español](#)
- . [Mandarin](#) . [Russian](#)

- . Join ISC Teams
- . Join Science Projects
- . Comments
- . Contact Us

**Welcome to the  
World of Science**



Pair of whooping cranes in Barabo, Wisconsin Photo by USFSW: Joel Trick

## Aviary Science Matrix

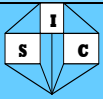
[Snowy Owl - ISC Mascot](#)

<http://www.youtube.com/watch?v=Ufkcx-UqljM>

[Red-tailed Hawk Nest Video - from Cornell University](#)

<http://www.allaboutbirds.org/Page.aspx?pid=2422&ac=ac>

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ISC Links are below:

## Aviary Science

### Gateways

- . Home - Welcome
- . Statement of Purpose
- . Master Index
- . Space Science Matrix
- . Earth Science Matrix
- . Ocean Science Matrix
- . New Technology News
- . Engineering Matrix
- . Colleges & University
- . Health Care Systems
- . Medical Science Matrix
- . [Environmental Science](#)
- . Photo Gallery – Space
- . Photo Gallery – Earth
- . Photo Gallery – Ocean
- . Video Gallery

. [Environmental Science](#)

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#### Languages Planned

- . [English](#) . [Français](#)
- . [Deutsch](#) . [Español](#)
- . [Mandarin](#) . [Russian](#)

- . Join ISC Teams
- . Join Science Projects
- . Comments
- . Contact Us

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World of Science

## Aviary Science Matrix Includes III - IV - X

### Overview I

### Space Science Matrix II

### Earth Science Matrix III

### Ocean Science Matrix IV

### New Technology Matrix V

### Engineering Information Matrix VI

### Colleges & Universities Overview VII

### Health Care Systems Matrix VIII

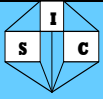
### Medical Science Matrix IX

### Environmental Science Matrix X

### Science Photo Gallery

The Power of Earth – Ocean – Space **XI**  
The Beauty of Earth – Ocean – Space **XII**

### Science Video Gallery - XIII



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ISC Links are below:

[Space](#) - [Earth](#) - [Ocean](#) - [Earth & Ocean Gov](#) - [New Tech](#) - [New Tech Gov](#) - [Enviro 1](#) - [Enviro 2](#)  
[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

## Table of Contents

Welcome to the World of Science

## Aviary Science Ornithology

## Aviary Science Matrix

### Ornithology Table of Contents

#### Site Index Master

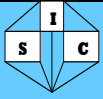
<u>Title</u>	<u>Page No.</u>
Cover & Matrix Chart.....	1 - 2
Aviary Science Table of Contents.....	3
Animal Species Categories.....	4
Aviary Sciences Overview.....	5
Aviary Science Classifications.....	6
Aviary Science Areas.....	7
Birds by Generic Category.....	8
Birds by US Agencies.....	9
Birds by Canadian Agencies.....	10
Colleges & Universities.....	11
Private Entities.....	12 - 13
Birds by Areas – Bahamas.....	14
Geo Areas - Antarctic.....	15
Geo Areas - Arctic.....	16
Birds of North and Central America.....	17
Birds of the World.....	18 - 19



A flock of American coots

USFWS photo

USFWS photo



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

## Animal Species Overview

## Animal Species Categories

## Vertebrates Phylum (Chordates)

## Aviary Science Ornithology

## Animal Species Overview

### General Animal Species Categories

#### Vertebrates - Chordates

- . **Amphibian**

<http://amphibiaweb.org/>

- . **Bird**

<http://en.wikipedia.org/wiki/Bird>

- . **Fish (Bony)**

<http://www.britannica.com/EBchecked/topic/73261/bony-fish>

- . **Mammal**

<http://www.ucmp.berkeley.edu/mammal/mammal.html>

- . **Reptile**

<http://www.reptile-database.org/db-info/taxa.html#Ser>

There are currently approx. 62,305 extant Vertebrate species.

**Vertebrates comprise only about 5% of all described animal species.**

**Vertebrates are Chordates which have backbones and spinal columns.**

<http://www.currentresults.com/Environment-Facts/Plants-Animals/number-species.php>

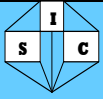


USFWS - [http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial\\_number&search=2451](http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial_number&search=2451)

*Gymnogyps Californianus*

<http://www.brainpop.com/science/diversityoflife/vertebrates/preview.weml>

<http://www.ucmp.berkeley.edu/vertebrates/vertintro.html>



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

## Animal Species Overview

## Animal Species Categories

## Invertebrates Multiple Phyla

## Aviary Science Ornithology

## Animal Species Overview

### General Animal Species Categories

#### Invertebrates

(Invertebrates provide a significant food source for Birds.)

#### . Arachnology & Acarology – Spiders & more

Spiders, scorpions, harvestmen, ticks, mites & more.

<http://www.arachnology.org/> [http://www.nhm.ac.uk/hosted\\_sites/acarology/](http://www.nhm.ac.uk/hosted_sites/acarology/)

#### . Entomology – Insects <http://ento.psu.edu/>

The study of insects, including flies, cicadas, fleas, bugs, bees, beetles, moths, butterflies, grasshoppers, crickets & ants.

[Apiology](#) (or [melittology](#)) - [bees](#) [Lepidopterology](#) - [moths](#) and [butterflies](#)  
[Coleopterology](#) - [beetles](#) [Myrmecology](#) - [ants](#)  
[Dipterology](#) - [flies](#) [Orthopterology](#) - [grasshoppers](#), [crickets](#), etc.  
[Hemipterology](#) - [true bugs](#) [Trichopterology](#) - [caddis flies](#)

#### . Malacology - Molluscs <http://www.malacological.org/index.php>

Malacology is the study of the group of animals called Molluscs, which includes chitons, clams, mussels, snails, nudibranchs (sea slugs), tusk shells, octopus & squid.

#### . Marine Invertebrates (partial)

. Abolene . Anemone . Clam . Coral . Crab . Cucumber ((Sea)  
. Cuttlefish . Fan (Sea) . Jelly (Sea) . Jellyfish . Lobster . Mysid  
. Nautoloid . Ostracod . Periwinkle . Prawn . Scaphopods  
. Shrimp . Spider . Sponge . Sea Star . Urchin . Worm .

<http://www.montereybayaquarium.org/animals/AnimalList.aspx?a=Invertebrates>

[http://www.naturegrid.org.uk/biodiversity/invert\\_english.html](http://www.naturegrid.org.uk/biodiversity/invert_english.html)

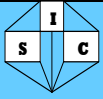
[http://www.oceanlight.com/marine\\_invertebrates.html](http://www.oceanlight.com/marine_invertebrates.html)

There are currently approx. 1, 305, 250 extant Invertebrate species.

**Invertebrates comprise about 95% of all described animal species.**

Invertebrates are animals that lack a vetrebral column or backbone.

<http://www.currentresults.com/Environment-Facts/Plants-Animals/number-species.php>



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

## Aviary Sciences Overview

## Aviary Scientific Classifications

Kingdom

Phylum

Subphylum

Branch

Class

## Aviary Science Matrix

Species

Subspecies

Separate Species

## Aviary Sciences Overview

## Aviary Scientific Classifications

**Kingdom:** [Animalia](#) or [Metazoa](#).  
(multicellular, [eukaryotic organisms](#))

**Phylum:** [Chordata](#)

**Subphylum:** [Vertebrata](#)

**Branch:** [Avialae](#)

**Class:** Aves

**30 orders**

**180 families**

**2,000 genera**

**~ 10,000 species**

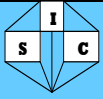
<http://www.britannica.com/EBchecked/topic/66391/bird/49232/Annotated-classification>

<http://animaldiversity.ummz.umich.edu/site/accounts/information/Aves.html>



Osprey  
Photo by Dawn Grafe

USFWS - [http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial\\_number&search=2451](http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial_number&search=2451)



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

## Aviary Sciences Overview

## Aviary Science Areas

### Cellular

### Molecular

### Organismal

### Environmental

## Aviary Science

Species

Subspecies

Separate Species

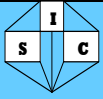
## Aviary Sciences Overview

### Aviary Science Areas

- . Cellular Science  
Cell biology
- . Molecular Science  
Genetics
- . Organismal Science  
Physiology  
Behaviour & Intellegience
- . Enviromental Science  
Environmental conditions & toxicology  
Conservation biology  
Veterinary Medicine & Diseases  
<http://aviansciences.ucdavis.edu/programs/>



King Eider – USFWS  
artic.fws.gov



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

**Birds by Generic Category**

**This Section in Development**

## Aviary Science

**Generic Category**

**Migration Patterns**

**Indigenous Areas**

### Birds by Generic Category

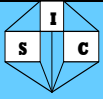
- . **Arctic/Antarctic Birds**
- . **Birds of Prey**
- . **Forest Birds**
- . **Game Birds**
- . **Jungle Birds**
- . **Marsh Birds**
- . **Migratory Birds**
- . **Neotropical Birds**
- . **Pearching Birds**
- . **Non-perching Land Birds**
- . **Sea Birds / Shorebirds**
- . **Wading Birds**
- . **Water Birds / Waterfowl**



<http://www.bio.georgiasouthern.edu/bio-home/Chandler/Ornith7.html>

USFWS - [http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial\\_number&search=2451](http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial_number&search=2451)





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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

### Information Sources

### Government Agencies

### North America

### United States

## Aviary Science Information Sources

### Government Agencies

### Colleges & Universities

### Private Entities

### North America United States

#### Multiple Federal Agencies are involved.

**USFWS** - The U.S. Fish and Wildlife Service is the **principal Federal agency** charged with protecting and enhancing the populations and habitat of **Birds**.

[www.fws.gov/birds](http://www.fws.gov/birds)

#### **USFWS** Birds of Conservation Concern

[www.fws.gov/migratorybirds/NewReportsPublications/SpecialTopics/](http://www.fws.gov/migratorybirds/NewReportsPublications/SpecialTopics/)

<http://www.fws.gov/migratorybirds/NewReportsPublications/SpecialTopics/BCC2008/BCC2008.pdf>

**NOAA** [www.noaa.gov](http://www.noaa.gov)

[www.erh.noaa.gov/er/buf/research/birds/birdnet1.htm](http://www.erh.noaa.gov/er/buf/research/birds/birdnet1.htm)

**USDA** [www.aphis.usda.gov/animal\\_health/birdbiosecurity](http://www.aphis.usda.gov/animal_health/birdbiosecurity)

**EPA** Bird Conservation Overview

<http://www.epa.gov/owow/birds/intro.html>

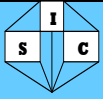
**NCBI / NIM / NIH** [www.ncbi.nlm.nih.gov/pmc/articles/PMC2797638](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2797638)



Frigate Bird

Image by: Kirdler, E./USFWS

**USFWS** - [http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial\\_number&search=2451](http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial_number&search=2451)



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

- [\*\*Aviary Science Matrix\*\*](#)
- [\*\*Information Sources\*\*](#)
- [\*\*Government Agencies\*\*](#)
- [\*\*North America\*\*](#)
- [\*\*Canada\*\*](#)

## Aviary Science Information Sources

**Government Agencies**

**Colleges & Universities**

**Private Entities**

### North America Canada

**Multiple Canadian Agencies are involved.**  
**Canadian Environmental Assessment Agency**

[www.ceaa.gc.ca](http://www.ceaa.gc.ca)

<http://www.ceaa.gc.ca/default.asp?lang=En&n=DC5AF4D6-1&offset=2&toc=show>

### **Canadian Food Inspection Agency**

[www.inspection.gc.ca](http://www.inspection.gc.ca)

<http://inspection.gc.ca/about-the-cfia/newsroom/news-releases/wild-bird-survey/eng/1323652435016/1323652435017>

### **Wildlife in B.C.**

<http://env.gov.bc.ca/fw/wildlife/>

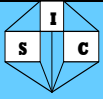
Management of wildlife in Canada is shared by the federal, provincial, and territorial governments. Federal responsibility includes protection and management of migratory birds.



Fiscal Shrike

Image by: Stolz, Gary M./USFWS

[http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird\\_pictures-11.htm](http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird_pictures-11.htm)



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov](#).

**Aviary Science Matrix**

**Information Sources**

**Colleges & Universities**

**Aviary Science Information Sources**

**Government Agencies**      **Colleges & Universities**      **Private Entities**

**Colleges & Universities**  
**Ornithology Courses**

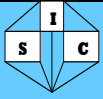
**Cornell Lab of Ornithology**  
est. 1915  
[www.birds.cornell.edu](http://www.birds.cornell.edu)

**Charles Sturt University**  
Australia  
[www.csu.edu.au](http://www.csu.edu.au)  
[www.csu.edu.au/courses/postgraduate/ornithology](http://www.csu.edu.au/courses/postgraduate/ornithology)

**University of Birmingham**  
United Kingdom  
<http://www.birmingham.ac.uk/index.aspx>  
<http://www.ornithology.bham.ac.uk/courses/>



Least Auklet Image by: Rhode Elaine/USFWS  
[http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird\\_pictures-9.htm](http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird_pictures-9.htm)



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

### Information Sources

### Private Entities

Pg. 1 of 2

## Aviary Science Information Sources

**Government Agencies**

**Colleges & Universities**

**Private Entities**  
Page 1 of 2

**National Audubon Society**  
<http://www.audubon.org/>

**International Alliances Program**  
<http://iap.audubon.org/>

**Bird Clubs in North America**  
<http://www.aba.org/resources/birdclubs.html>

**Classic Collection of North American Birds**  
<http://www.birds-of-north-america.net/contact-ccnab.html>

**Sierra Club - Bird Family Tree Gets Ruffled**  
<http://sierraclub.typepad.com/greenlife/2008/06/bird-family-tre.html>

**American Birding Association**  
<http://www.aba.org/resources/birdclubs.html>

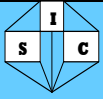
**Bird Cams Offer Rare Glimpses Into Avian Lives**  
<http://sierraclub.typepad.com/greenlife/2011/03/bird-cams-offer-rare-glimpse-into-birds-private-lives.html>



Blue & Yellow Macaws ... Image by: Maslowski, Steve/USFWS

[http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird\\_pictures-3.htm](http://www.weforanimals.com/galleries/birds%20gallery/bird%20pictures/page1/bird_pictures-3.htm)

USFWS - [http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial\\_number&search=2451](http://www.blm.gov/ca/forms/wildlife/details.php?metode=serial_number&search=2451)



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Enjoy these external Links:  
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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## Aviary Science Matrix

### Information Sources

### Private Entities

Pg. 2 of 2

## Aviary Science Information Sources

**Government Agencies**

**Colleges & Universities**

**Private Entities**  
Page 2 of 2

### 10,000 Birds

<http://10000birds.com/gregs-2012-year-list.htm>  
<http://10000birds.com/what-is-the-sierra-club-anyway.htm>

### The International Wild Waterfowl Association (IWWA)

<http://www.greatnorthern.net/~dye/iwwa.html>

### The Parrot Pages

<http://www.parrotpages.com/associations.shtml>

### BIRDNET

### National & International Ornithological Organizations

<http://www.nmnh.si.edu/BIRDNET/ornith/ornithsoc.html>

### BIRDLIFE International

[http://en.wikipedia.org/wiki/BirdLife\\_International](http://en.wikipedia.org/wiki/BirdLife_International)

### WildBirds.com

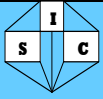
<http://www.wildbirds.com/Home/tabid/36/Default.aspx>  
<http://www.wildbirds.com/IdentifyBirds/BirdingOrganizations/tabid/113/Default.aspx>



USFWS

<http://digitalmedia.fws.gov/>

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Enjoy these external Links:  
ISC Links are below:

[Space](#) - [Earth](#) - [Ocean](#) - [Earth & Ocean Gov](#) - [New Tech](#) - [New Tech Gov](#) - [Enviro 1](#) - [Enviro 2](#)  
[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

## **Aviary Science Matrix**

## **Information Links**

## **Birds by Gographic Areas**

## **Bahamas**

## **Aviary Science**

## **Aviary Information Links Overview**

### **Birds by Geographical Areas**

#### **. Bahamas**

##### **. Bahama Oriole**

<http://www.birdlife.org/community/2010/08/bahama-oriole-on-the-edge/>

##### **. Bahama Swallow**

<http://www.birdlife.org/community/2010/07/endangered-bahama-swallow-on-neotropical-birds/>

##### **. Kirtland's Warbler**

<http://birds.audubon.org/species/kirwar>

##### **. Piping Plover**

<http://birds.audubon.org/species/pipplo>

##### **. West Indian Flamingo**

<http://www.mnh.si.edu/livingfossils/flamingo.htm>

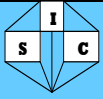
##### **. Bahamas National Trust (BNT)**

[http://www.bnt.bs/historical\\_overview.php?subid=30&catid=1](http://www.bnt.bs/historical_overview.php?subid=30&catid=1)



Bahama Swallow

Ref. <http://neotropical.birds.cornell.edu/portal/home>



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ISC Links are below:

## **Aviary Science Matrix**

## **Birds by Gographic Areas**

## **Antartic**

## **Aviary Science**

## **Antartic Birds**

### **Antartic Birds**

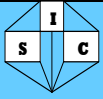
<http://gdargaud.net/Antarctica/Birds.html>

- **Antarctic skua**  
<http://gdargaud.net/Antarctica/Birds.html#Skua#Skua>
- **Giant Antarctic Petrel**  
<http://gdargaud.net/Antarctica/Birds.html#GiantPetrel>
- **Cape Petrel**  
<http://gdargaud.net/Antarctica/Birds.html#CapePetrel>
- **Storm petrel**  
<http://gdargaud.net/Antarctica/Birds.html#StormPetrel>
- **Snow petrel**  
<http://gdargaud.net/Antarctica/Birds.html#SnowPetrel>
- **Antarctic Fulmar**  
<http://gdargaud.net/Antarctica/Birds.html#Fulmar>



Snow Petrel

<http://gdargaud.net/Antarctica/Birds.html#Fulmar>



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**Aviary  
Science  
Matrix**

**Birds by  
Gographic  
Areas**

**North  
and  
Central  
America**

## Aviary Science

### Birds of North and Central America

#### The American Ornithologist's Union

<http://www.aou.org/>

**List of the 2,078 Bird Species Known from  
the A.O.U. Check-list Area**

<http://www.aou.org/checklist/north/>

[North American Classification Committee \(NACC\),](#)

#### BIOGEOGRAPHY

<http://www.ornithology.com/Lectures/Geography.html>

#### The Nature Conservancy (US)

<http://www.nature.org/>

#### National Audubon Society

<http://www.audubon.org/>

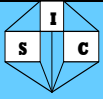
#### American Birding Association

<http://aba.org/>

**..USFWS Brant Broods**







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**Aviary  
Science  
Matrix**

**Birds by  
Gographic  
Areas**

**The  
World**

## **Aviary Science**

### **Birds of the World - 1**

#### **Checklists of the World**

<http://www.ornithology.com/Checklist/checklistsw.html>

#### **Birds of the World**

**Excellent**

<http://worldbirding.blogspot.com/search/label/Common%20Black%20Hawk>

#### **Printable Bird Checklists**

<http://printablebirdchecklists.homestead.com/>  
<http://www.worldbirdnames.org>

#### **Web-published Bird Checklists with Seasonal Abundance**

<http://www.flyingemu.com/checklst.html>

#### **World Birding with Fatbirder**

[http://www.fatbirder.com/links\\_geo/](http://www.fatbirder.com/links_geo/)

#### **Birding for All**

<http://www.birdingforall.com/>

#### **Avibase - Bird Checklists of the World**

**'Select Checklists by Regions'**

<http://avibase.bsc-eoc.org/checklist.jsp?lang=EN>

#### **Wildfowl & Wetland Trust (UK)**

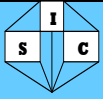
<http://www.wwt.org.uk/>

#### **Ornithology.com**

<http://www.ornithology.com/>

#### **Rare & Endangered Birds of the World**

<http://www.squidoo.com/rarebirds>



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[Engineering](#) - [Colleges 1](#) - [Colleges 2](#) - [Health Care](#) - [Medicine 1](#) - [Medicine 2 Gov.](#)

**Aviary  
Science  
Matrix**

**Birds by  
Gographic  
Areas**

**The  
World**

## Aviary Science

### Birds of the World - 2

#### Birds of Africa

<http://www.ornithology.com/Checklist/africa.html>

#### Birds of Antarctic

<http://www.ornithology.com/Checklist/antarctic.htm>

#### Birds of Asia

<http://www.ornithology.com/Checklist/asia.html>

#### Birds of Australia/New Zealand

<http://www.ornithology.com/Checklist/australia.html>

#### Birds of Central America

<http://www.ornithology.com/Checklist/centralam.html>

#### Birds of Europe

<http://www.ornithology.com/Checklist/europe.html>

#### Birds of Indonesia/Malaysia

<http://www.ornithology.com/Checklist/indonesia.html>

#### Birds of the Middle East

<http://www.ornithology.com/Checklist/middleeast.html>

#### Birds of North America and Hawaii

<http://www.ornithology.com/Checklist/northam.html#Birdsofnorthamerica>

#### Birds of South America/Caribbean

<http://www.ornithology.com/Checklist/samerica.html>

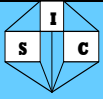
#### Sibley-Monroe Checklist Parts 1 & 2

[http://www.birding.in/checklists/sibley-monroe\\_checklist\\_01.htm](http://www.birding.in/checklists/sibley-monroe_checklist_01.htm)

[http://www.birding.in/checklists/sibley-monroe\\_checklist\\_02.htm](http://www.birding.in/checklists/sibley-monroe_checklist_02.htm)

#### Birds of the World - Sounds, Songrams & Information

<http://birdix.com/>



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## Aviary Science - Artic Birds

**Aviary  
Science  
Matrix**

**Birds by  
Gographic  
Areas**

**Artic**

### Artic Birds

- A**  
[American Golden Plover](#)  
[American Avocets](#)  
<http://animals.nationalgeographic.com/animals/photos/shorebird-photos/>  
[http://animals.nationalgeographic.com/animals/photos/shorebird-photos/#/avocet-tail-feathers\\_12938\\_600x450.jpg](http://animals.nationalgeographic.com/animals/photos/shorebird-photos/#/avocet-tail-feathers_12938_600x450.jpg)
- B**  
[Black-legged Kittiwake](#)  
<http://travel.nationalgeographic.com/travel/parks/sirmilik-canada-park/>
- C**  
[Central Asian Flyway](#)  
[Common Murre](#)  
[http://www.allaboutbirds.org/guide/Common\\_Murre/id](http://www.allaboutbirds.org/guide/Common_Murre/id)  
[Common Starling](#)  
[http://www.allaboutbirds.org/guide/european\\_starling/id](http://www.allaboutbirds.org/guide/european_starling/id)  
[http://www.allaboutbirds.org/guide/european\\_starling/videos](http://www.allaboutbirds.org/guide/european_starling/videos)  
[Cassin's Auklet](#)  
[http://www.allaboutbirds.org/guide/Cassins\\_Auklet/sounds](http://www.allaboutbirds.org/guide/Cassins_Auklet/sounds)  
[Crested or Rhinoceros Auklet](#)  
[http://www.allaboutbirds.org/guide/Rhinoceros\\_Auklet/videos](http://www.allaboutbirds.org/guide/Rhinoceros_Auklet/videos)
- D**  
[Dunlin \(Sandpiper family\)](#)  
<http://www.allaboutbirds.org/guide/dunlin/id>
- E**  
[Golden Eagle](#)
- F**  
[Northern Fulmar](#)
- G**  
[Barnacle Goose](#)  
[Grey Heron](#)  
[Grey Plover](#)  
[Glaucous Gull](#)  
[Ivory Gull](#)  
[Ross's Gull](#)  
[Gyr Falcon](#)

(All birds have videos available.)

### Artic Birds

- K**  
[Kittiwake](#)
- L**  
[Lapland Longspur](#)  
[Least Auklet](#)  
[Little Auk](#)  
[Red-throated Loon](#)  
[Yellow-billed Loon](#)
- M**  
[Thick-billed Murre](#)  
<http://animals.nationalgeographic.com/animals/birds/murre/>
- N**  
[Nunavut - List of birds of Nunavut](#)
- P**  
[Puffin](#)  
<http://animals.nationalgeographic.com/animals/birds/atlantic-puffin/?source=A-to-Z>  
<http://video.nationalgeographic.com/video/player/news/animals-news/puffins-threatened-wcvin.html>
- R**  
[Common Raven](#)  
[Red Knot](#)  
[Red Phalarope](#)  
[Red-legged Kittiwake](#)  
[Rock Ptarmigan](#)
- S**  
[Sabine's Gull](#)  
[Baird's Sandpiper](#)  
[Buff-breasted Sandpiper](#)  
[White-rumped Sandpiper](#)  
[Snow Goose](#)  
[Snowy Owl](#)
- T**  
[Arctic Tern](#)
- U**  
[Uria](#)
- W**  
[Arctic Warbler](#)

**Birds A - Z**  
<http://www.allaboutbirds.org/guide/browse?name=c>