EVOLVE........ A BEAK AT EVOLUTION

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3.Primitive Beaks.
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5.Adaptive Radiation.
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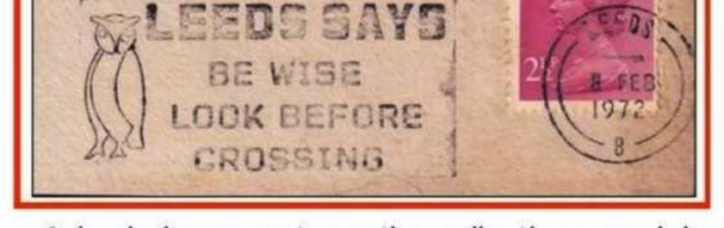

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Toco Toucan - Paper Variety and Imperf color trials
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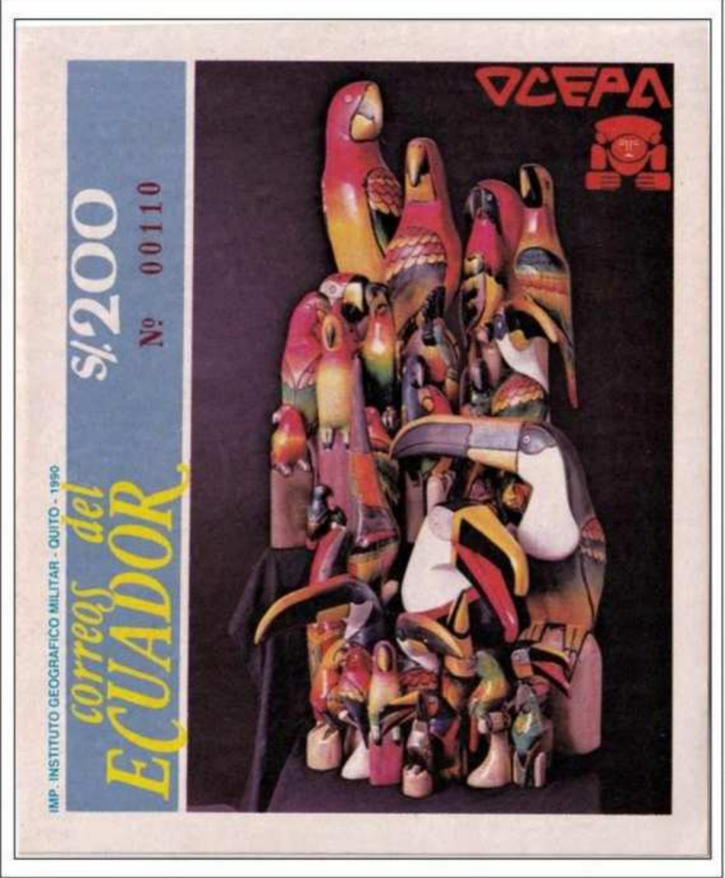
Beaks changed as the birds developed different tastes for fruits, seeds, or insects picked from the ground or cacti. Long, pointed beaks made some of them more fit for picking seeds out of cactus fruits. Shorter, stouter beaks served best for eating seeds found on the ground.



PANORAMA OF BEAKS
Imperf MS- Limited Edition, as this one is serially numbered 00110 of 25000 issued

Eventually, the immigrants evolved into 14 separate species, each with its own song, food preferences, and beak shapes.

Beaks of Grey Parrot Frama Se-tenant Lowest ATM was issued for 0.48 Euros

Diagrammatic explanation of types of Beaks suitable for type of food.

Warbler finches, for example, catch insects in beaks that are sharper and more slender than those of cactus eaters.

Beak of a Toucan-Advertisement Meter Cancel-on a window cover

Redstart Bird - Issued 1988, Perf & Imperf

Salvin's Prion- a Marine Bird- Die Card -Issued 01.01.1994

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PRESENCE OF TEETH - Unlike jaws of the Mammals, bills of the birds do not have teeth. They have a living outer covering, which grows significantly to make up for wear and tear.

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It was a flying Dianosaur having teeth in its beak
Pictorial Postmark revealing presence of teeth in this prehistoric bird or shall we say a lying dinosaur.
An Exhibition cover tied with ATM Frama Germany - 2010

CHARLES ROBERT DARWIN FRS (12 February 1809-19 April 1882)

He was an English naturalist. He established that all species of life have descended over time from common ancestry, and proposed the scientific theory that this branching pattern of evolution resulted from a process that he called ***natural selection***. When Charles Darwin first saw the ***Galapagos Islands*** he described them as ***10 islands "situated under the equator."*** Noting differences in the feeding habits of the finches, Darwin wrote that cactus finches "may often be seen climbing about the flowers of the great cactus trees."

Seeing the diversity of beaks and other structures in the closely related finches, he wrote in his notebook, "***one might really fancy that one species had been taken and modified for different ends.***"

I THINK....

An 1871 caricature following publication of *The Descent of Man* was typical of many showing Darwin with an ape body, identifying him in popular culture as the leading author of evolutionary theory.

Gutter pairs Odd shaped, Self Adhesive. The design identifies the caricature of an Ape with that of Charles Darwin

In mid-July 1837 Darwin started his "B" notebook on *Transmutation of Species*, and on page 36 wrote -

"I think" above his first evolutionary tree.he wrote, *"an immigrant first settled on one of the islands, ..it would undoubtedly be exposed to different conditions in the different islands (where) it would have to compete with a different set of organisms. .. Then, natural selection would probably favor different varieties in the different islands."*

I THINK.... Tree sketch drawn by Darwin

ADAPTIVE RADIATION

Darwin's finches are the emblems of evolution. Cataloging the birds Darwin collected in 1835 helped him formulate his theory of evolution because he realized that all the finch species arose from one ancestral form that had adapted to a variety of feeding conditions. Today the finches are considered a perfect example of adaptive radiation, in which one species diversifies into many to exploit a wide range of habitats.

Four of the 14 finch species found on the Galápagos Archipelago, are thought to have evolved by an adaptive radiation that diversified their beak shapes to adapt them to different food sources.

Adaptive radiation, a characteristic example of ***cladogenesis***, can be graphically illustrated as a "bush", or clade, of coexisting species (on the tree of life).

In evolutionary biology, adaptive radiation is the evolution of ecological and phenotypic diversity within a rapidly multiplying lineage.

Galapagos Finches - Odd Shaped- Gutter Pairs—Self Adhesive

Decimal Definitive Stamps Booklet depicting Pond life and Birds Like Moorhen and Dabchick or Little Grebe. No such adaptive radiation is noticed among such birds Booklet was Issued in Oct 1986

ERROR-
DRY PRINT NOTICED ON LEFT FINCH ON UPPER STAMP
GUTTER PAIR - ISSUED 10.02.1982
CHARLES DARWIN
THIS ONE IS PART OF 4v SET

Starting with a recent single ancestor, this process of adaptive radiation results in the speciation and phenotypic adaptation of an array of species exhibiting different morphological and physiological traits with which they can exploit a range of divergent environments.

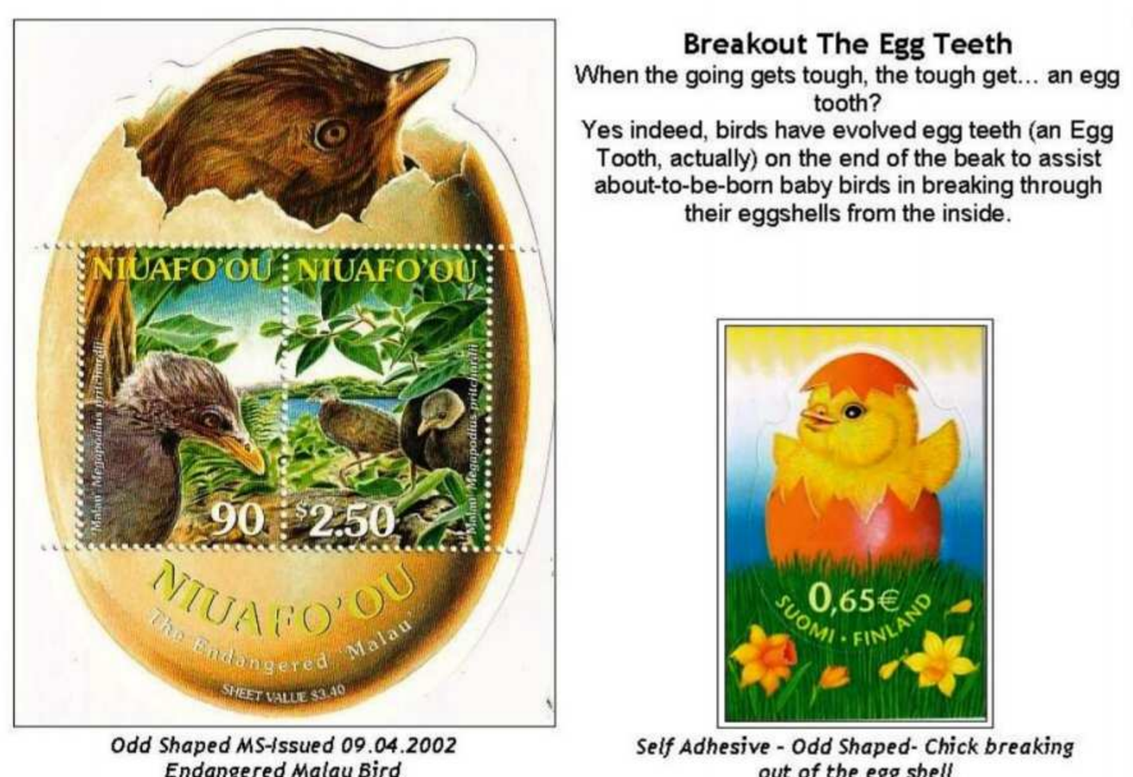
Charles Darwin with Galapagos Finches Issued on 24.06.2009
Gutter margins carry color control marks in the form of Beaks of Galapagos Finches

Highland Guan- A WWF issue- MS issued on 20.12.1994

CURIOUS BEAKS—THE FACT FILE

BRUSH YOUR BEAK - AMAZING BIRDS WITH TEETH

Do birds have teeth? Ask any biologist and the answer will be "absolutely not!", but "absolute" is a relative term and when one stretches the definitions of what makes a bird or a tooth, birds with teeth aren't absolutely impossible anymore.



Odd Shaped MS-Issued 09.04.2002 Endangered Malau Bird

Breakout The Egg Teeth
When the going gets tough, the tough get... an egg tooth?
Yes indeed, birds have evolved egg teeth (an Egg Tooth, actually) on the end of the beak to assist about-to-be-born baby birds in breaking through their eggshells from the inside.

Self Adhesive - Odd Shaped- Chick breaking out of the egg shell

Not Your Average Baby Teeth

Awww, cute cuddly baby birds! Hear them go *"cheep cheep cheep"*. Gently touch their warm, soft, downy feathers. Watch them open their tiny mouths wide and... *Oh. My. Gawd!!*

Many species of birds have, to a greater or lesser degree, spiky tooth-like rearward-facing spines in their mouths that ensure what goes in won't get out.

Goose Grazes Grasses
Goose is very common in Europe and western Asia. This is no "silly goose", at least not if those rows of teeth along its upper and lower jaws mean anything, disconcertingly un-birdlike choppers.

Error- Color Variety
Brown Fronted Woodpeckers have chisel like beaks. Issued

Gape is wide open - Newborn chicks being fed by mother. Down-rated and ovpt Issued 18.12.1980

Endangered Birds of India - Manipur Bush Quails-Mother & Chick - Error Color Variety Issued 05.10.2006

Tooth-like serrations
called Tomia run along the outside edges of the Greylag's beak, top and bottom, and help it neatly clip the shoots and grasses that make up the major portion of its meals.

Stamps Booklet commercially used

CURIOUS BEAKS - THE FACT FILE - WHAT IS GAPE?

In **bird** anatomy, the **gape** is the interior of the open mouth of a **bird**, and the **gape** flange is the region where the two mandibles join together at the base of the beak. The width of the **gape** can be a factor in the choice of food.

Specimen

Shade Variety - Error

Reverse side of the Proof depicting official Seal and approval for printing

White bellied Woodpecker feedings its chicks - Issued 05.08.1978
ORIGINAL ARTWORK— OFFICIAL PROOF FROM ARCHIVES

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES

Toucan Chew

"It's hard to soar with eagles when you're surrounded by turkeys" Or Toucans, for that matter. It's hard to take toucans seriously - between their ridiculously enlarged beaks and an unfortunate association with Froot Loops breakfast cereal its a wonder they haven't been laughed out of the rainforest by now.

White Throated Toucan- MS Issued 25.01.1999

Macaw has the bite strength of 500 to 700 pounds per square inch, which is close to that of a large dog bite

Tete-beche Corner Block Bottom Selvedge of the block depicts the bird Chestnut-fronted Macaw Issued 20.07.1967

The penguins have spine-covered tongue and similarly bristly upper palate. The spines function much as teeth would, holding captured fish securely as the penguin prepares to swallow it.

Error- Emperor Penguins - Perforation Shift Preserve the polar regions and glaciers Issued 1912.2009

Penguins Use Tongue Fu
Penguins are chock full of amazing evolutionary adaptations that enable them to perform as efficient fish-catching, meal-processing machines that turn speed-eating into a lifestyle.

A 5v Stamps Booklet issued on 01.01.1993 on Polar Clothings, depicts Emperor Penguins in the 3rd stamp on the right.

Polar Flight Covers of 1978 and 1979 missions , tied with label and pictorial flight post marks of Penguins.

Bay Stamps c/o Chief P.O. Auckland

CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

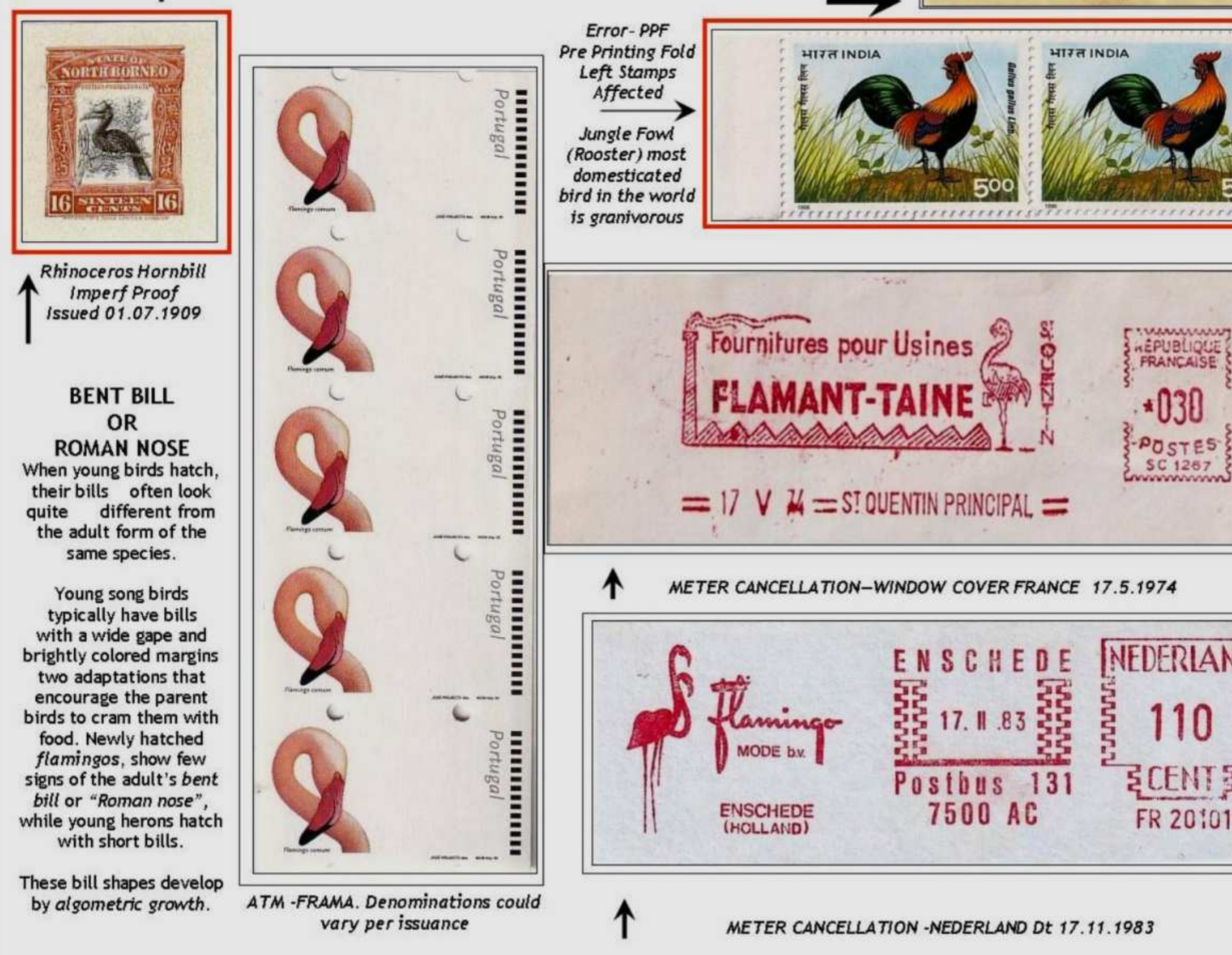
Granivorous Beaks

By definition, a bird is granivorous when it **eats** mostly **seeds** and grain. ... Flower **seeds**, including sunflowers, coneflowers, and wildflowers. Grass and weed **seeds**, including dandelions. Birdseed mixes, including white proso millet, milo **seed**, and Nyjer.

Color variety-House Sparrow

Error- Double Ovpt. Bananaquit Bird Issue 19.09.1983

ATM-FRAMA-ERROR- "g" shifted right on picture frame -all stamps affected



Error- PPF Pre Printing Fold Left Stamps Affected

Jungle Fowl (Rooster) most domesticated bird in the world is granivorous

Rhinoceros Hornbill Imperf Proof Issued 01.07.1909

BENT BILL OR ROMAN NOSE
When young birds hatch, their bills often look quite different from the adult form of the same species.

Young song birds typically have bills with a wide gape and brightly colored margins two adaptations that encourage the parent birds to cram them with food. Newly hatched *flamingos*, show few signs of the adult's *bent bill* or *"Roman nose"*, while young herons hatch with short bills.

These bill shapes develop by *algometric growth*.

ATM -FRAMA. Denominations could vary per issuance

METER CANCELLATION—WINDOW COVER FRANCE 17.5.1974

METER CANCELLATION -NEDERLAND Dt 17.11.1983

CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

Sap Sucker Beaks
Sapsuckers, almost all Hummingbirds, Sunbirds and a specialized group of woodpeckers, are sap suckers. Some Woodpeckers after pecking neat rows of small holes in trees to cause the sugary liquid to flow, the birds lick it up with tongues tipped with stiff hairs.

Mud Probing beaks
The herons and bitterns are carnivorous and feed on a variety of live aquatic prey like fish, reptiles, amphibians, crustaceans, mollusks and aquatic insects. The necks are able to kink in an s-shape, due to the modified shape of the sixth vertebrae. The neck is able to retract and extend, and is retracted during flight, unlike most other long-necked birds.

Purple throated Carib surcharged 40c On 8c, Issued on 15.12. 1973

Malachite Sunbird-Imperf Color Trial-20.04.1981

The neck is longer in the day herons than the night herons and bitterns. **Storks** have straight, long bills, which they use to catch prey, such as fish, frogs and toads, rodents, and insects such as grass-hoppers

Sarus Crane- 1/- (R to L) Definitive Issue Color Variety, Dramatic shift of Perforation and an Imperf Block- Issued 20.07.2000, watermarked.

Postmark on Postcard-Japan

Post Horn-Meter Cancel- Stylized Wader Birds and ducklings-Specimen

Painted Stork- Imperf Block Definitive-Issued 20.09.2001 watermarked

Whooper Swan Beaks have filter and thin serrations

Error—Imperforated in between Tete-beche pair. Wetlands conservation-IOWA migratory waterfowl stamp, expiry date Feb 28, 1985

CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

Insectivorous Beaks
Many birds have at least a partially insectivorous diet, and insects are a critical source of protein for many growing nestlings. While young birds are still dependent on their parents for food, they may be fed mostly insects, even if their mature diet will be much different. To be considered insectivorous, a bird does not necessarily need a diet of exclusive insects, but the insect proportion is quite significant.

Error-Red Shifted , Oriole Birds Issued-17.03.1991

Error-color variety-gutter pair Moorhen Birds,Issued-16.01.1980

Hand painted fancy cover with fancy cancellation of a pigeon, posted From Pigeon, West Virginia, USA, on 01 JUL, 1937

1897 **Great Argus A pheasant bird** *Error perforation shift*

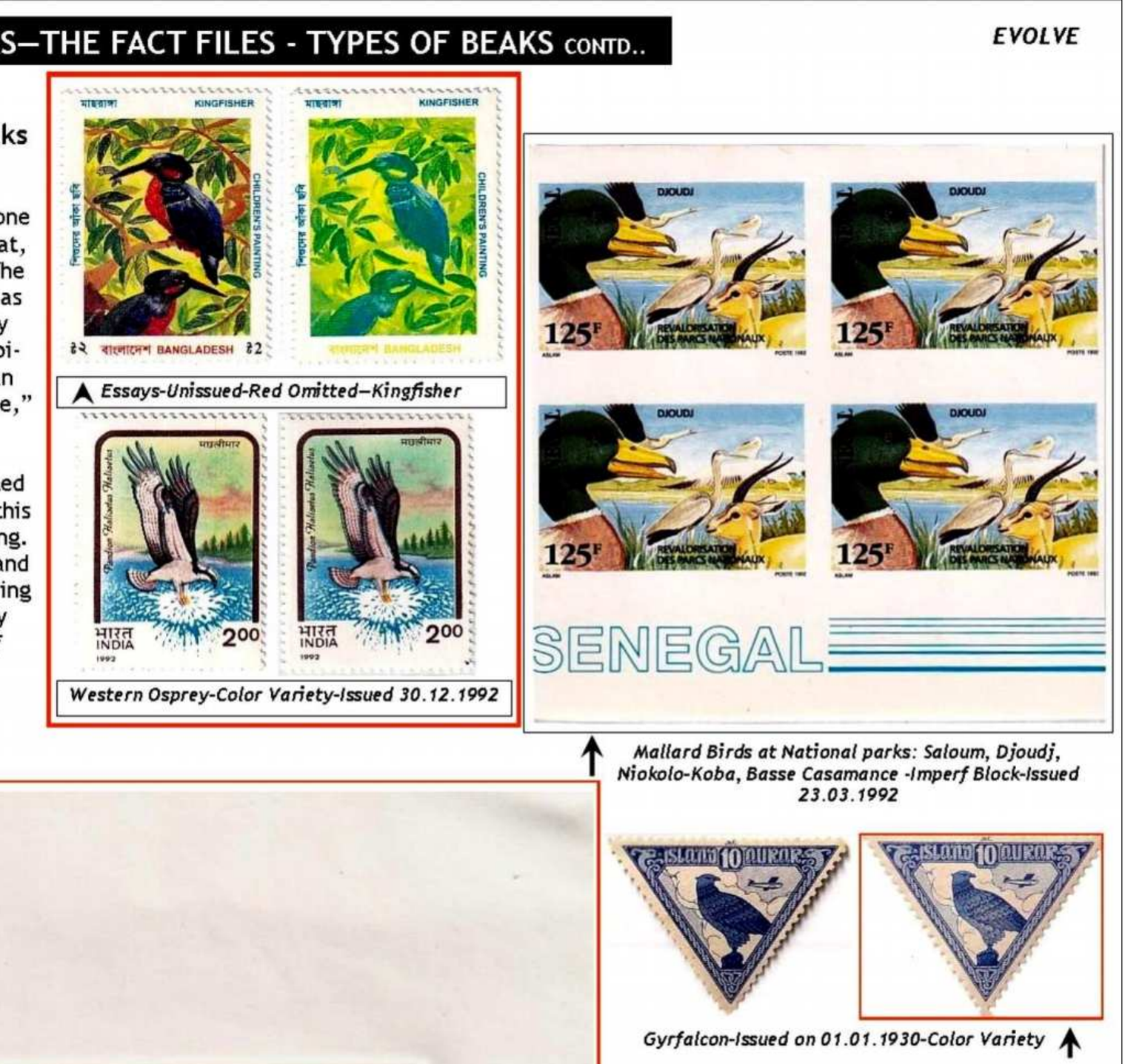
1901 Overprint and color variety British Protectorate

Stylized birds- Some crested birds, like pigeons, parrots and birds of prey appeared as Coat Of Arms on Non Judicial Stamp papers of many erstwhile feudatory states in British India period, like this one from Sarakar Bhopalgarh State, priced at pre decimal currency of Two Annas.

CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

Pescatarian Beaks

Most simply, a pescatarian is someone who doesn't eat meat, but does eat **fish**. The term pescatarian was coined in the early 1990s and is a combination of the Italian word for **fish**, "pesce," and the word "vegetarian." Sometimes it's spelled "pescetarian," but this means the same thing. Mostly Water birds and marine birds, including some birds of prey have such type of beaks.



Essays-Unissued-Red Omitted—Kingfisher

Western Osprey-Color Variety-Issued 30.12.1992

Mallard Birds at National parks: Saloum, Djoudj, Niokolo-Koba, Basse Casamance -Imperf Block-Issued 23.03.1992

Gyrfalcon-Issued on 01.01.1930-Color Variety

Amsterdam Albatross -Artist Signe Proof

Error- Partial Dry Print - Top Right Stamp Affected Amsterdam Albatross -Issued 01.01.1985 Antarctic Wildlife

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES CONTD.

Hooked Beak - Meat Eaters

All raptors have the same beak design, curved at the tip with sharp cutting edges to tear apart prey that will easily fit into the mouth. The beaks have evolved over time based on the type of prey eaten. For example, the American Kestrel has a small beak for eating small prey, like mice and insects.

Albino -With Surcharge Ovpt

American Kestrel - Error and Varieties-Issued as Definitive on 20.02.1978

ATM-Frama -Error-Color Variety

Hooked Beak of Bald Eagle is sharp as razor and bent to slice off chunk of meat of its prey. Commemorative cover, 8th Annual Alaska Bald Eagle Festival

Kinesis-The Bite
Most birds with the important exception of birds of prey and parrots, catch & hold their food with their beaks alone. Many birds can raise the upper half of their bill, something known as Kinesis.

ERROR- RED & BLACK OMITTED
Lord Derby's Parakeet-
Issued 10.07.1975

Red Lory- Birds of the Antwerp Zoo- Minister's proof-Limited Issue to the VIPs amongst postal authorities seeking approval of the final design of the stamp. Issued 23.06.1962

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES CONTD.

Omnivorous Beaks (All Purpose Beaks) - Common Ravens are omnivorous foraging generalists, particularly fond of carrion and garbage. Their powerful bill enables them to feed on carcasses, small vertebrates, bird eggs, nestlings, insects, invertebrates (mollusks), seeds and fruits. These intelligent birds are known to temporarily cache buried food, hunt cooperatively in groups and post a sentinel when feeding. As ground gleaners, they forage by picking prey and food from the ground and vegetation as they walk (rather than hop).

Masked Wood Swallow -Error-Pink Omitted Issued 01.07.1980 as Definitive

Australian Magpie - PERF & IMPERF Issued 04.08.1986 at Stampex-86

CROWS - Propaganda stamps- Sheet-let with simulated perforations. Issued during political solidarity by Poland during 1986

North Dakota Crow Control Stamps Booklet
Issued 1945 by North Dakota Game & Fish Department to control crow menace in the city. Buyer's name is required to be endorsed on purchase.

BEAK AS A MULTI FUNCTION TOOL

Does having a beak make up for *not* having teeth, paws, hands, antlers, horns or spines? It has to. Birds must rely on their beaks to carry out many different tasks.

Preening

Drinking

Nesting

Anhinga does not have waterproof feathers- It often preens its wings for oiling and drying with its beak. Ovpt. and Down-rated Block-Issued 16.12.1960

The number one use for the beak is to gather or capture food. Some beaks are specialized to be just right for certain diets. Birds with these bills use them the same way we use a spoon to eat ice cream or a fork to eat salad.

Singing -Error-Missing Legs Upper Stamp-Issued 08.08.1966

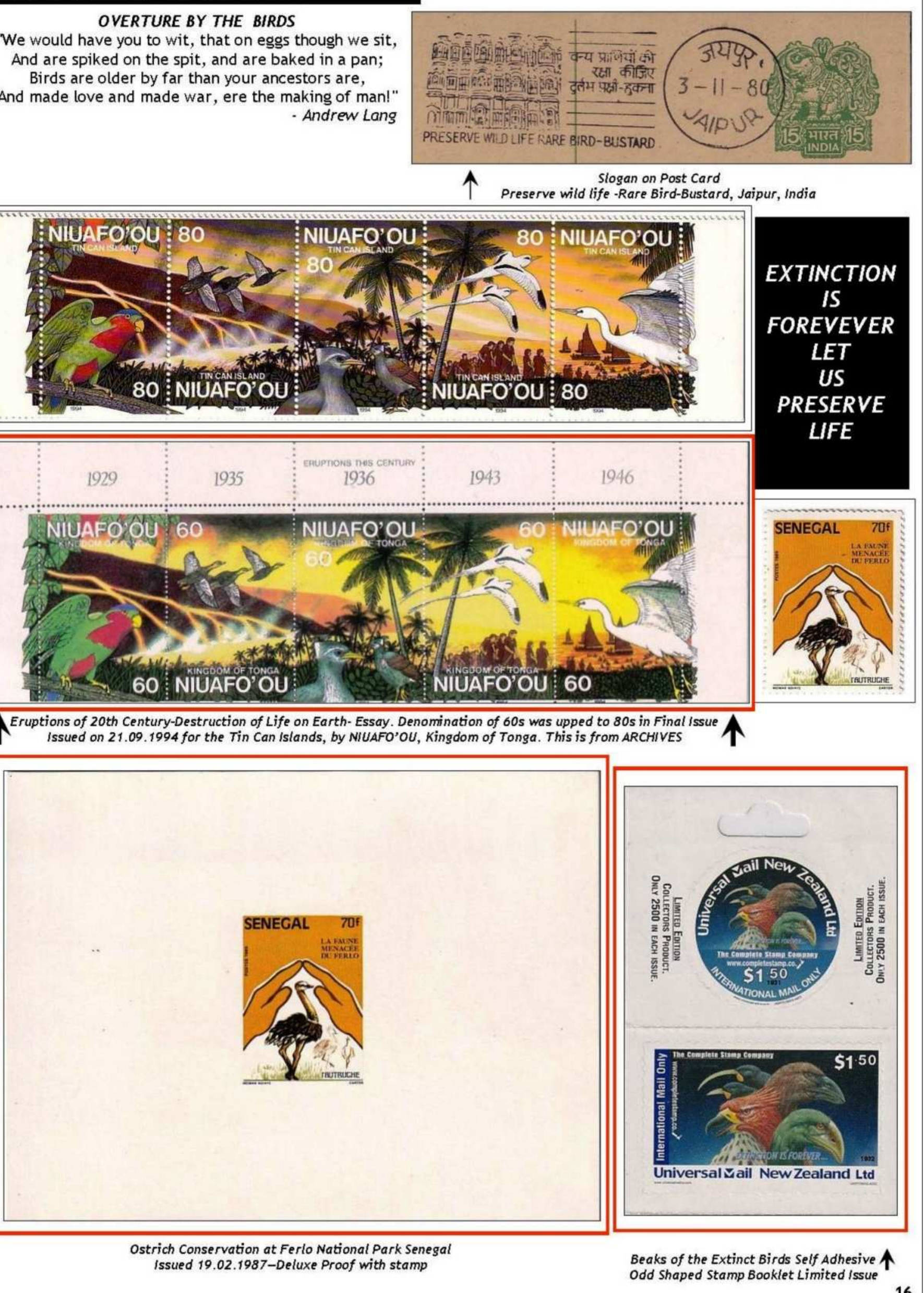
Weaving a Nest- Little Weaver-Composite Marginal Imperf Block of progressive color trials-Issued 18.11.1967

Beak full of fishes -Pelican Surcharged -Issued10.12.1962

Horned Beaks for defending Southern Cassowary -Issued 12.06.1974

BEAK EVOLVED... THE AFTER...

OVERTURE BY THE BIRDS
"We would have you to wit, that on eggs though we sit,
And are spiked on the spit, and are baked in a pan;
Birds are older by far than your ancestors are,
And made love and made war, ere the making of man!"
- Andrew Lang



Slogan on Post Card
Preserve wild life -Rare Bird-Bustard, Jaipur, India

EXTINCTION IS FOREVEVER LET US PRESERVE LIFE

Eruptions of 20th Century-Destruction of Life on Earth- Essay. Denomination of 60s was upped to 80s in Final Issue Issued on 21.09.1994 for the Tin Can Islands, by NIUAFO'OU, Kingdom of Tonga. This is from ARCHIVES

Ostrich Conservation at Ferlo National Park Senegal Issued 19.02.1987—Deluxe Proof with stamp

Beaks of the Extinct Birds Self Adhesive Odd Shaped Stamp Booklet Limited Issue

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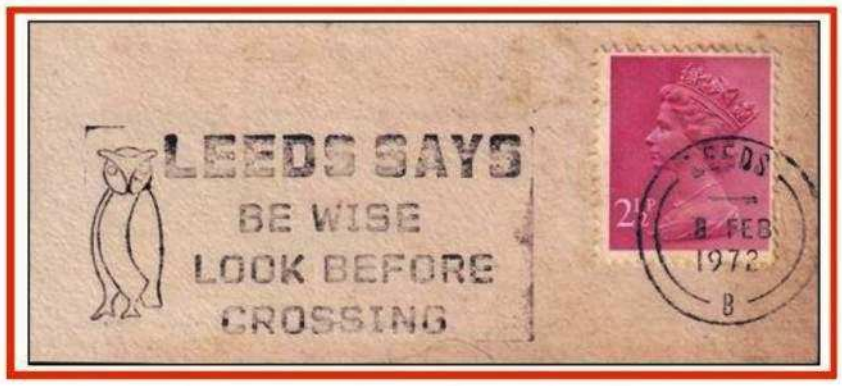

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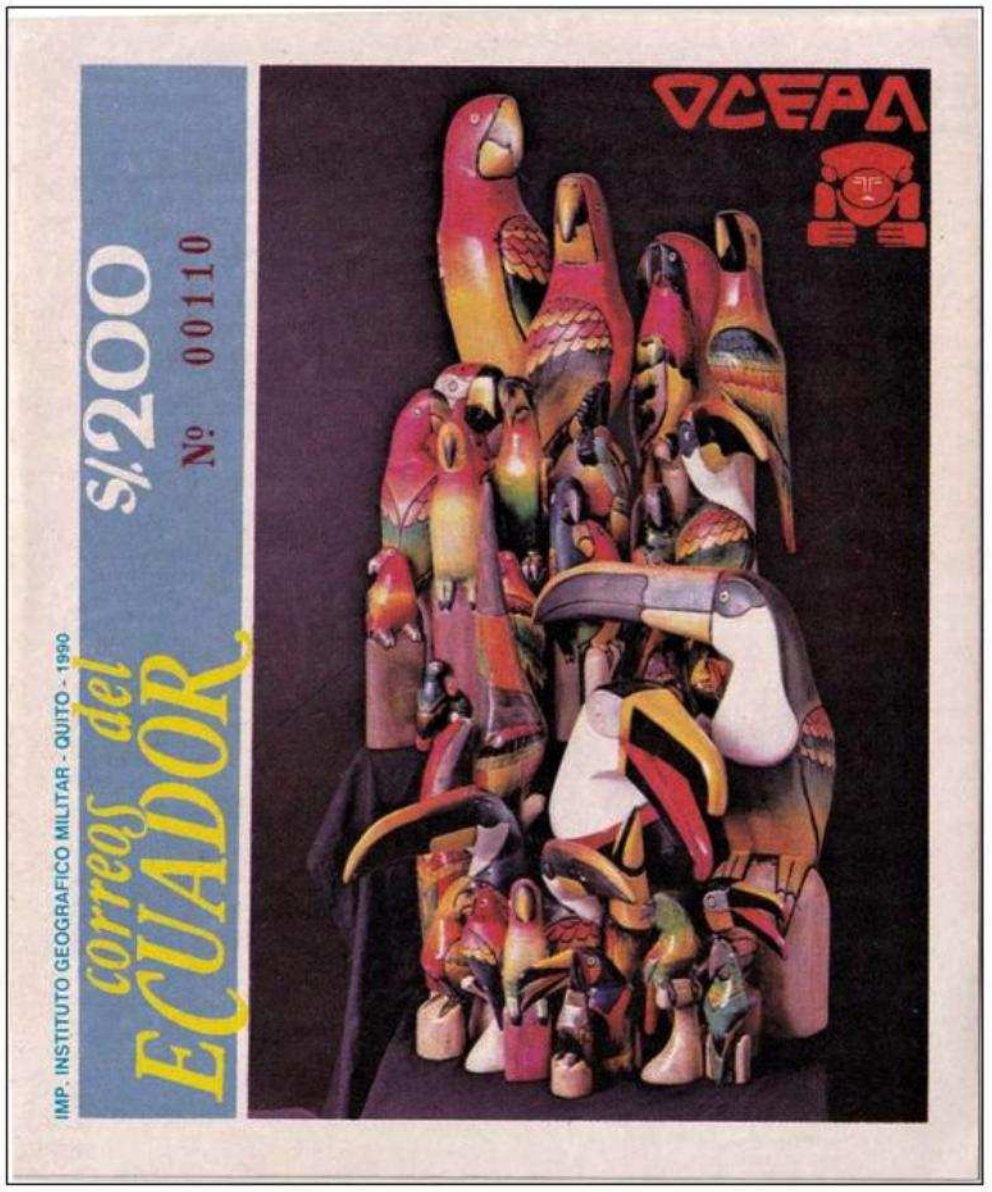

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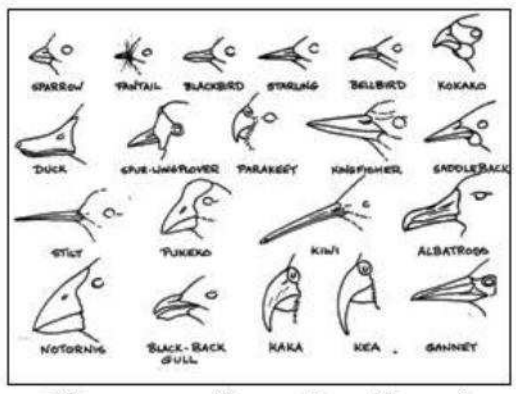

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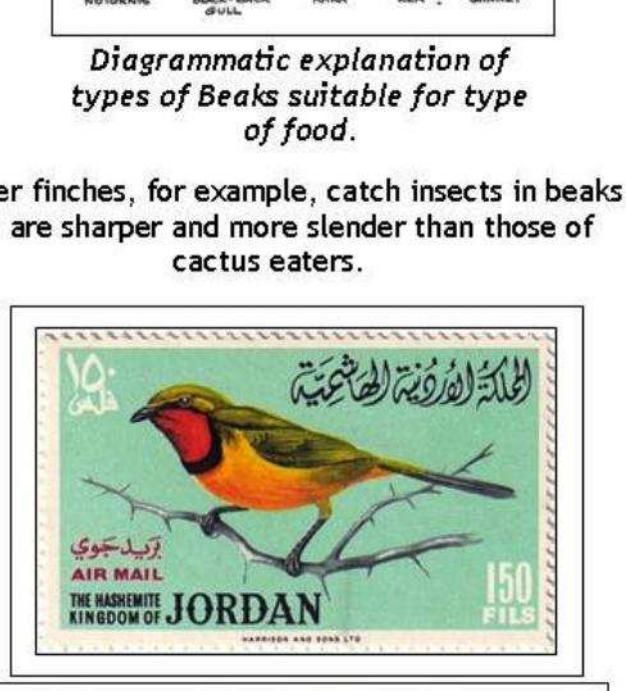

Redstart Bird - Issued 1988, Perf & Imperf

Beak of a Toucan-Advertisement Meter Cancel-on a window cover

IMPRIMERIE des TIMBRES-POSTE - FRANCE

Salvin's Prion- a Marine Bird- Die Card -Issued 01.01.1994

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Error- Black omitted
A Pre Historic Bird- *Pterosauria*,
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Red Breasted Merganser- Essentially a water bird has teeth like serrations in its beak for catching fish
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Meter cancellation depicting first ever known bird Archaeopteryx

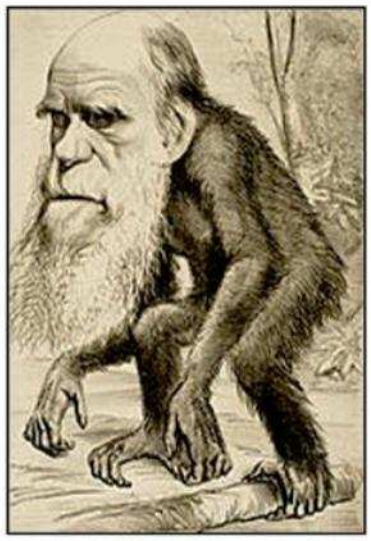
Restoration of Tropeognathus
It was a flying Dianosaur having teeth in its beak
Pictorial Postmark revealing presence of teeth in this prehistoric bird or shall we say a lying dinosaur.
An Exhibition cover tied with ATM Frama Germany - 2010

CHARLES ROBERT DARWIN FRS (12 February 1809-19 April 1882)

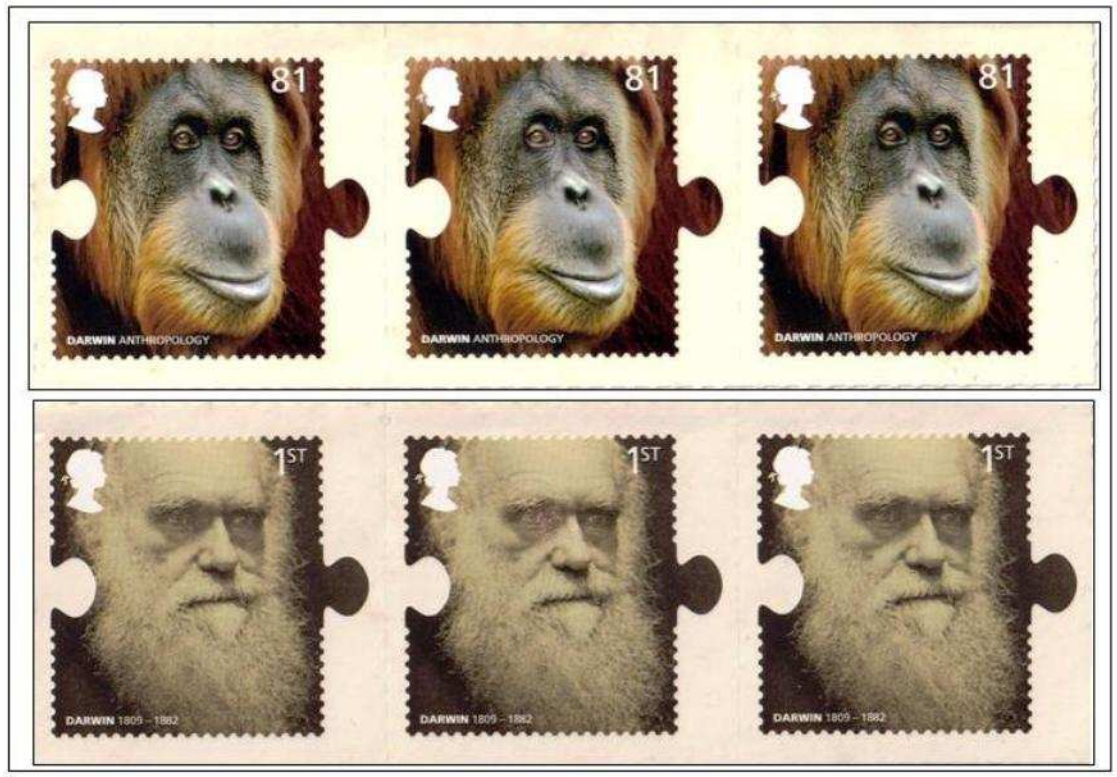
He was an English naturalist. He established that all species of life have descended over time from common ancestry, and proposed the scientific theory that this branching pattern of evolution resulted from a process that he called ***natural selection***. When Charles Darwin first saw the ***Galapagos Islands*** he described them as ***10 islands "situated under the equator."*** Noting differences in the feeding habits of the finches, Darwin wrote that cactus finches "may often be seen climbing about the flowers of the great cactus trees."

Seeing the diversity of beaks and other structures in the closely related finches, he wrote in his notebook, ***"one might really fancy that one species had been taken and modified for different ends."***

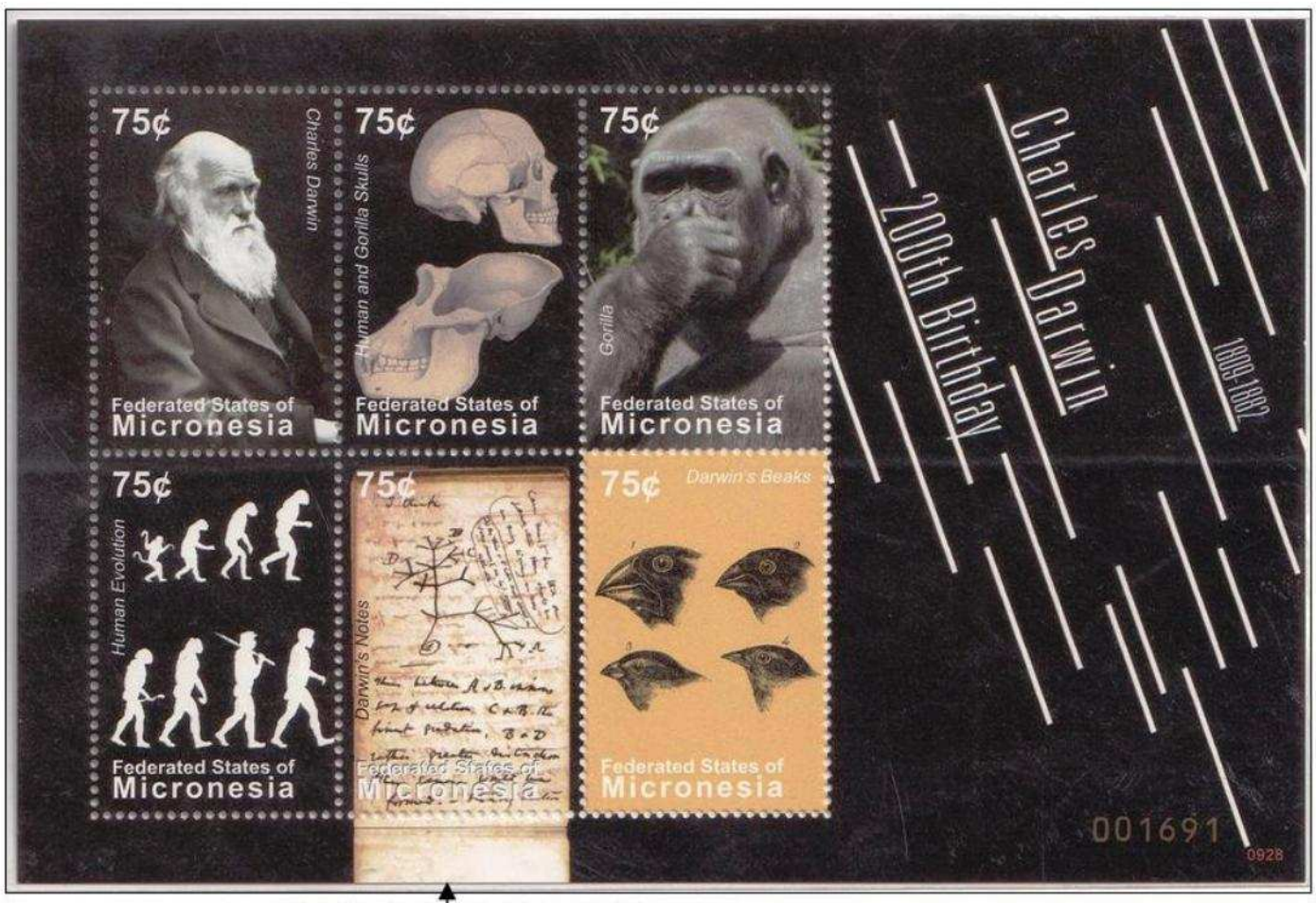
I THINK....



An 1871 caricature following publication of *The Descent of Man* was typical of many showing Darwin with an ape body, identifying him in popular culture as the leading author of evolutionary theory.



Gutter pairs Odd shaped, Self Adhesive. The design identifies the caricature of an Ape with that of Charles Darwin



I THINK.... Tree sketch drawn by Darwin

In mid-July 1837 Darwin started his "B" notebook on *Transmutation of Species*, and on page 36 wrote -

"I think" above his first evolutionary tree.he wrote, *"an immigrant first settled on one of the islands, ..it would undoubtedly be exposed to different conditions in the different islands (where) it would have to compete with a different set of organisms. .. Then, natural selection would probably favor different varieties in the different islands."*

ADAPTIVE RADIATION

Darwin's finches are the emblems of evolution. Cataloging the birds Darwin collected in 1835 helped him formulate his theory of evolution because he realized that all the finch species arose from one ancestral form that had adapted to a variety of feeding conditions. Today the finches are considered a perfect example of adaptive radiation, in which one species diversifies into many to exploit a wide range of habitats.

Four of the 14 finch species found on the Galápagos Archipelago, are thought to have evolved by an adaptive radiation that diversified their beak shapes to adapt them to different food sources.

Adaptive radiation, a characteristic example of ***cladogenesis,*** can be graphically illustrated as a "bush", or clade, of coexisting species (on the tree of life).

In evolutionary biology, adaptive radiation is the evolution of ecological and phenotypic diversity within a rapidly multiplying lineage.

Galapagos Finches - Odd Shaped- Gutter Pairs–Self Adhesive

Decimal Definitive Stamps Booklet depicting Pond life and Birds Like Moorhen and Dabchick or Little Grebe. No such adaptive radiation is noticed among such birds Booklet was Issued in Oct 1986

ERROR-
DRY PRINT NOTICED ON LEFT FINCH ON UPPER STAMP
GUTTER PAIR - ISSUED 10.02.1982
CHARLES DARWIN
THIS ONE IS PART OF 4v SET

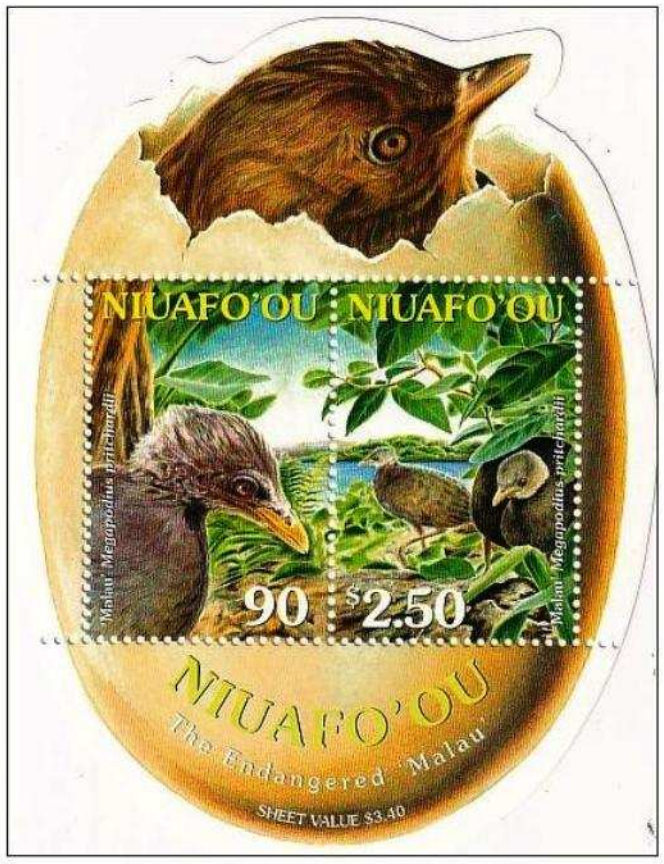
Charles Darwin with Galapagos Finches
Issued on 24.06.2009
Gutter margins carry color control marks in the form of Beaks of Galapagos Finches

Starting with a recent single ancestor, this process of adaptive radiation results in the speciation and phenotypic adaptation of an array of species exhibiting different morphological and physiological traits with which they can exploit a range of divergent environments.

Highland Guan- A WWF issue- MS issued on 20.12.1994

BRUSH YOUR BEAK - AMAZING BIRDS WITH TEETH

Do birds have teeth? Ask any biologist and the answer will be "absolutely not!", but "absolute" is a relative term and when one stretches the definitions of what makes a bird or a tooth, birds with teeth aren't absolutely impossible anymore.



Odd Shaped MS-Issued 09.04.2002 Endangered Malau Bird

Breakout The Egg Teeth

When the going gets tough, the tough get... an egg tooth?

Yes indeed, birds have evolved egg teeth (an Egg Tooth, actually) on the end of the beak to assist about-to-be-born baby birds in breaking through their eggshells from the inside.

Self Adhesive - Odd Shaped- Chick breaking out of the egg shell

Not Your Average Baby Teeth

Awww, cute cuddly baby birds! Hear them go *"cheep cheep cheep"*. Gently touch their warm, soft, downy feathers. Watch them open their tiny mouths wide and... *Oh. My. Gawd!!*

Many species of birds have, to a greater or lesser degree, spiky tooth-like rearward-facing spines in their mouths that ensure what goes in won't get out.

Error- Color Variety Brown Fronted Woodpeckers have chisel like beaks. Issued

Goose Grazes Grasses

Goose is very common in Europe and western Asia. This is no "silly goose", at least not if those rows of teeth along its upper and lower jaws mean anything, disconcertingly un-birdlike choppers.

Gape is wide open - Newborn chicks being fed by mother. Down-rated and ovpt Issued 18.12.1980

Endangered Birds of India - Manipur Bush Quails-Mother & Chick - Error Color Variety Issued 05.10.2006

Tooth-like serrations

called Tomia run along the outside edges of the Greylag's beak, top and bottom, and help it neatly clip the shoots and grasses that make up the major portion of its meals.

Stamps Booklet commercially used

CURIOUS BEAKS - THE FACT FILE - WHAT IS GAPE?

In **bird** anatomy, the **gape** is the interior of the open mouth of a **bird**,
and the **gape** flange is the region where the two mandibles join together at the base of the beak.
The width of the **gape** can be a factor in the choice of food.

Specimen

Shade Variety - Error

Reverse side of the Proof depicting official Seal and approval for printing

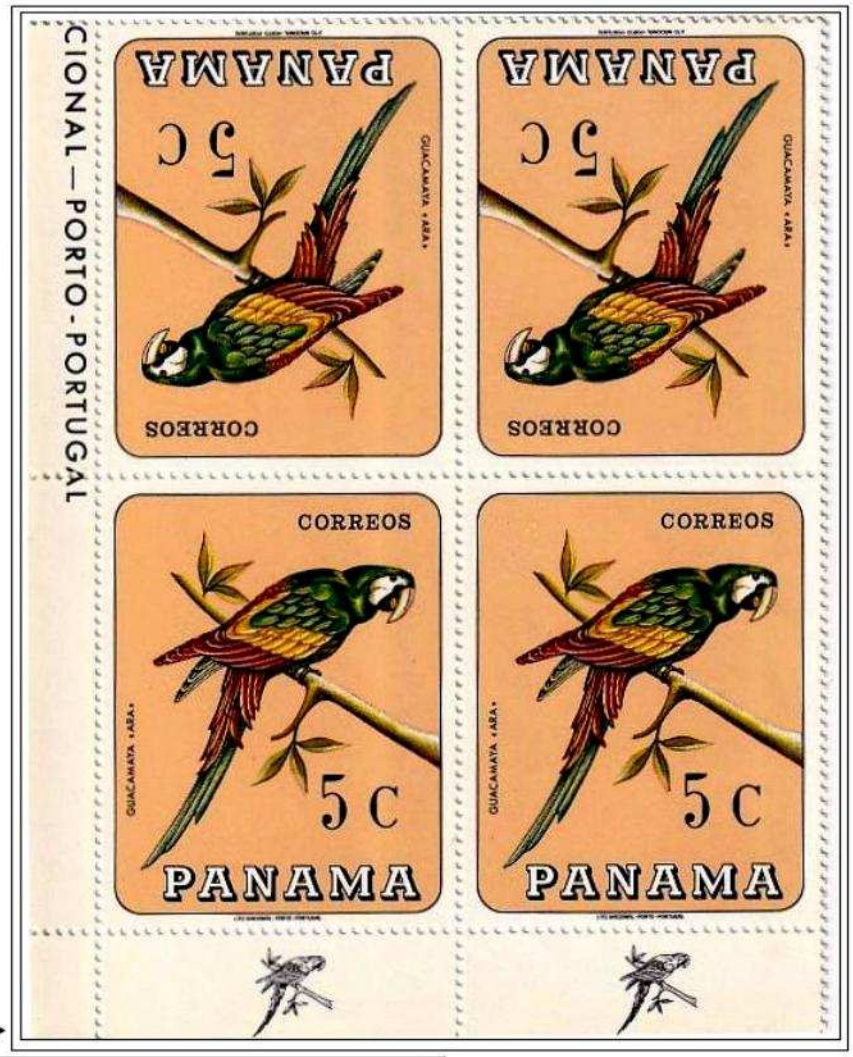
White bellied Woodpecker feedings its chicks - Issued 05.08.1978
ORIGINAL ARTWORK– OFFICIAL PROOF FROM ARCHIVES

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES

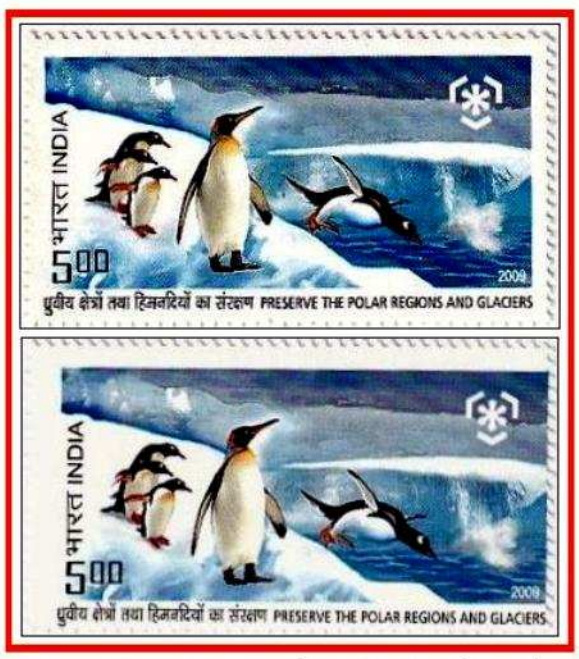
Toucan Chew

"It's hard to soar with eagles when you're surrounded by turkeys" Or Toucans, for that matter. It's hard to take toucans seriously - between their ridiculously enlarged beaks and an unfortunate association with Froot Loops breakfast cereal its a wonder they haven't been laughed out of the rainforest by now.

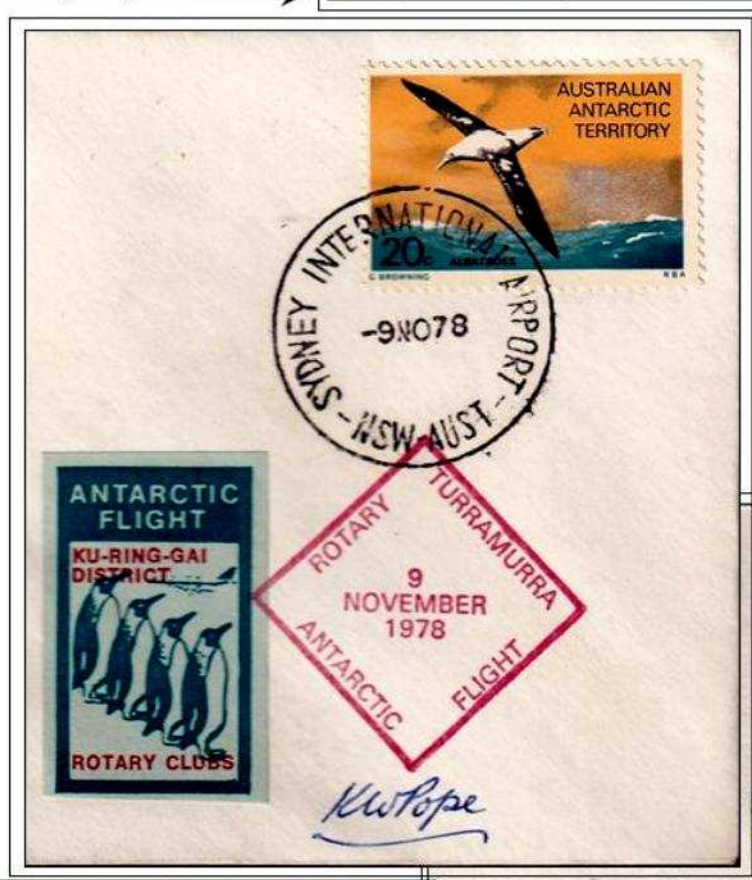
White Throated Toucan- MS Issued 25.01.1999



Macaw has the bite strength of 500 to 700 pounds per square inch, which is close to that of a large dog bite →



Error- Emperor Penguins - Perforation Shift
Preserve the polar regions and glaciers
Issued 1912.2009



Tete-beche Corner Block
Bottom Selvedge of the block depicts the bird
Chestnut-fronted Macaw
Issued 20.07.1967

The penguins have spine-covered tongue and similarly bristly upper palate. The spines function much as teeth would, holding captured fish securely as the penguin prepares to swallow it.

Penguins Use Tongue Fu

Penguins are chock full of amazing evolutionary adaptations that enable them to perform as efficient fish-catching, meal-processing machines that turn speed-eating into a lifestyle.

A 5v Stamps Booklet issued on 01.01.1993 on Polar Clothings, depicts Emperor Penguins in the 3rd stamp on the right. →

Polar Flight Covers of 1978 and 1979 missions , tied with label and pictorial flight post marks of Penguins.

CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

EVOLVE

Color variety-House Sparrow

Granivorous Beaks

By definition, a bird is granivorous when it **eats** mostly **seeds** and grain. ... Flower **seeds**, including sunflowers, coneflowers, and wildflowers. Grass and weed **seeds**, including dandelions. Birdseed mixes, including white proso millet, milo **seed**, and Nyjer.

Error- Double Ovpt. Bananaquit Bird Issue 19.09.1983

ATM-FRAMA-ERROR- "g" shifted right on picture frame -all stamps affected

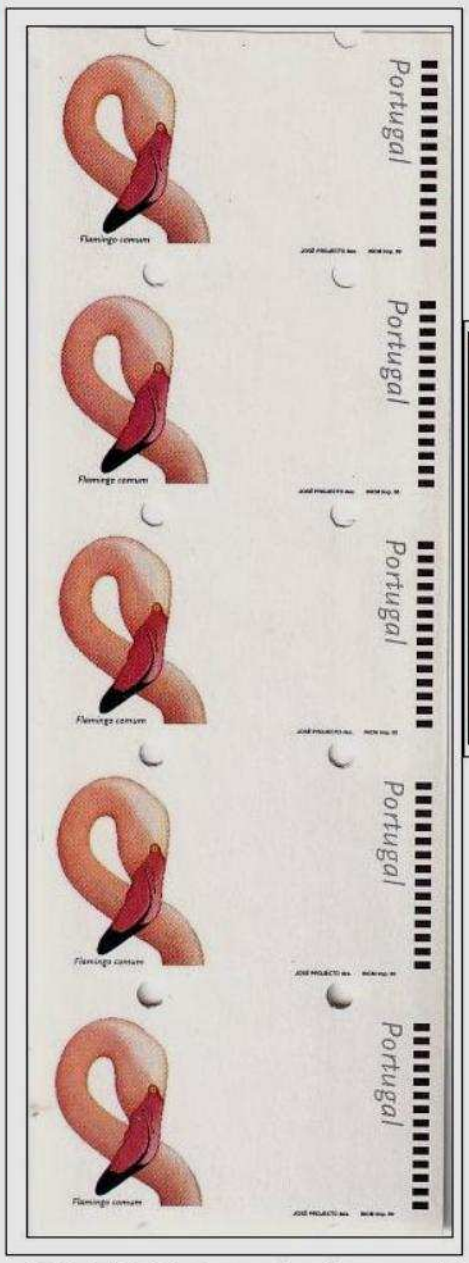
Rhinoceros Hornbill Imperf Proof Issued 01.07.1909

BENT BILL OR ROMAN NOSE

When young birds hatch, their bills often look quite different from the adult form of the same species.

Young song birds typically have bills with a wide gape and brightly colored margins two adaptations that encourage the parent birds to cram them with food. Newly hatched *flamingos*, show few signs of the adult's *bent bill* or *"Roman nose"*, while young herons hatch with short bills.

These bill shapes develop by *algometric growth*.

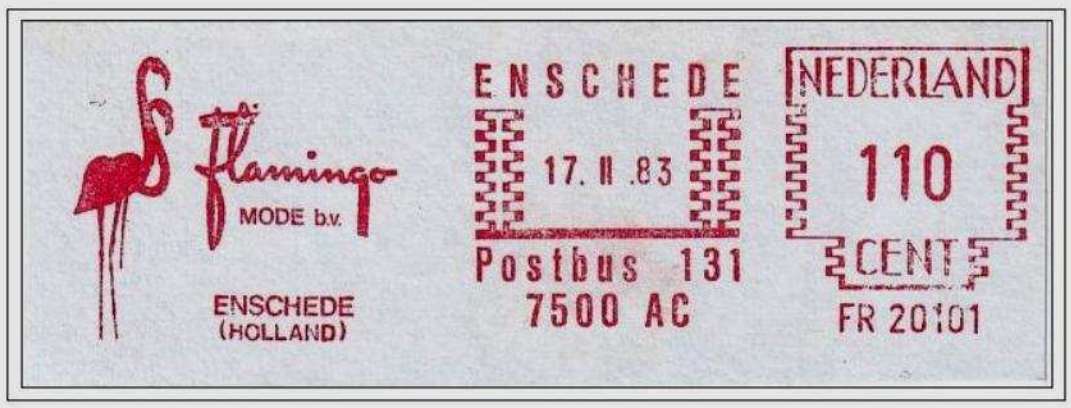


ATM -FRAMA. Denominations could vary per issuance

Error- PPF Pre Printing Fold Left Stamps Affected

Jungle Fowl (Rooster) most domesticated bird in the world is granivorous

METER CANCELLATION—WINDOW COVER FRANCE 17.5.1974



METER CANCELLATION -NEDERLAND Dt 17.11.1983

Sap Sucker Beaks

Sapsuckers, almost all Hummingbirds, Sunbirds and a specialized group of woodpeckers, are sap suckers. Some Woodpeckers after pecking neat rows of small holes in trees to cause the sugary liquid to flow, the birds lick it up with tongues tipped with stiff hairs.

Malachite Sunbird-Imperf Color Trial-20.04.1981

↓ Mud Probing beaks

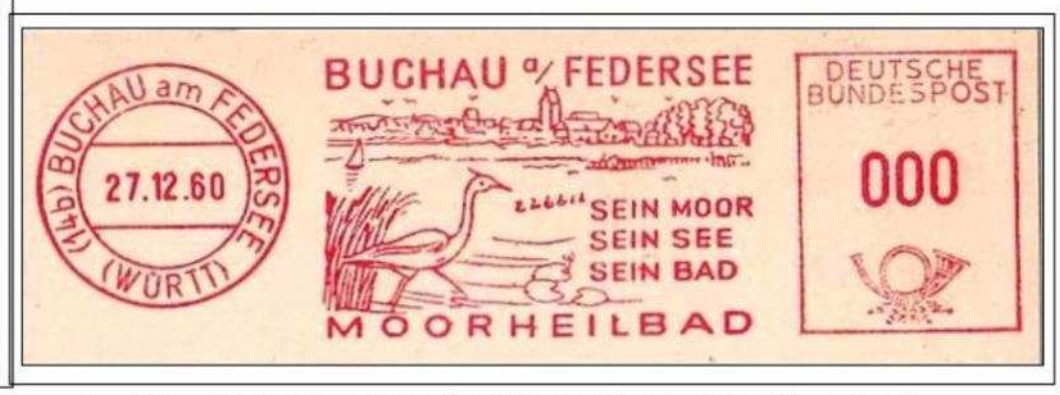
The herons and bitterns are carnivorous and feed on a variety of live aquatic prey like fish, reptiles, amphibians, crustaceans, mollusks and aquatic insects. The necks are able to kink in an s-shape, due to the modified shape of the sixth vertebrae. The neck is able to retract and extend, and is retracted during flight, unlike most other long-necked birds.

Purple throated Carib surcharged
40c On 8c,
Issued on 15.12. 1973

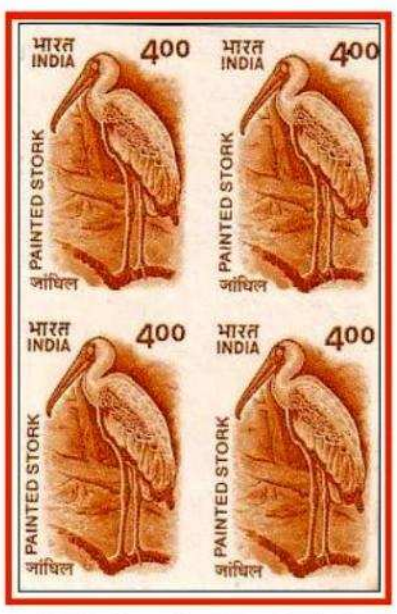
Sarus Crane- 1/- (R to L) Definitive Issue Color Variety, Dramatic shift of Perforation and an Imperf Block- Issued 20.07.2000, watermarked.

The neck is longer in the day herons than the night herons and bitterns. **Storks** have straight, long bills, which they use to catch prey, such as fish, frogs and toads, rodents, and insects such as grasshoppers

Postmark on Postcard-Japan



Post Horn-Meter Cancel- Stylized Wader Birds and ducklings-Specimen



Painted Stork- Imperf Block Definitive-Issued 20.09.2001 watermarked

Whooper Swan Beaks have filter and thin serrations

Error—Imperforated in between Tete-beche pair. Wetlands conservation-IOWA migratory waterfowl stamp, expiry date Feb 28, 1985

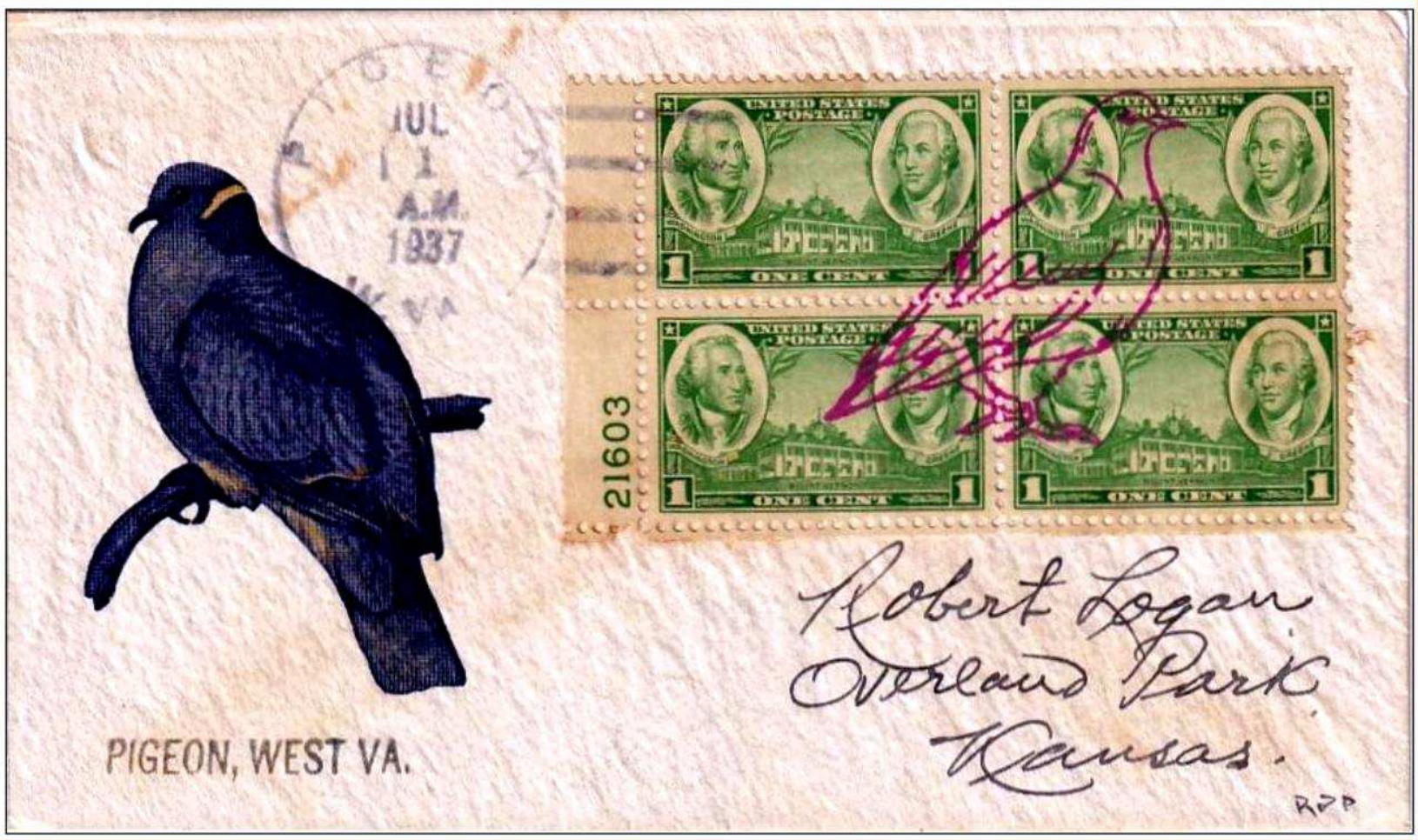
Insectivorous Beaks

Many birds have at least a partially insectivorous diet, and insects are a critical source of protein for many growing nestlings. While young birds are still dependent on their parents for food, they may be fed mostly insects, even if their mature diet will be much different. To be considered insectivorous, a bird does not necessarily need a diet of exclusive insects, but the insect proportion is quite significant.

Error-Red Shifted , Oriole Birds
Issued-17.03.1991

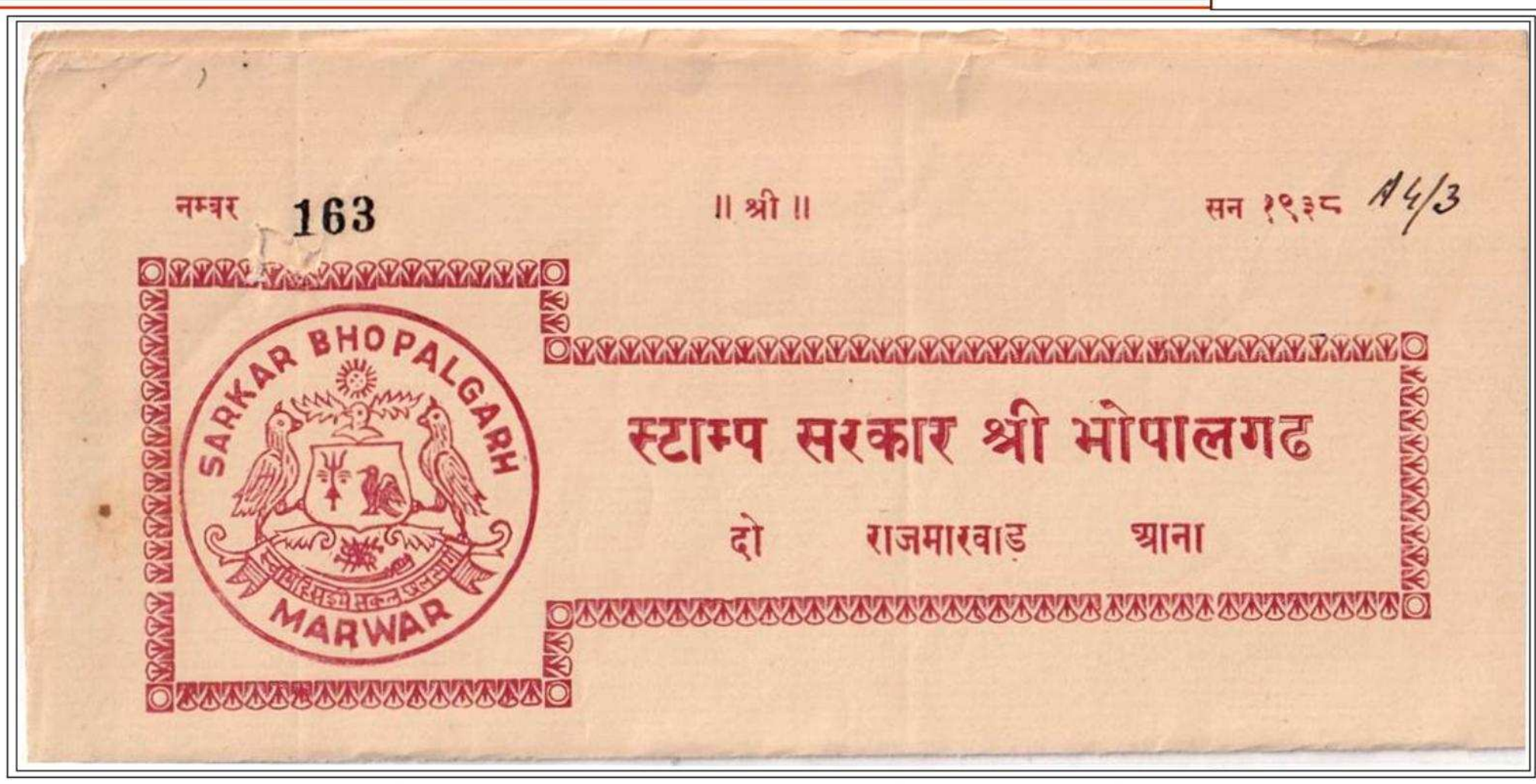
Error-color variety-gutter pair
Moorhen Birds,Issued-16.01.1980

Hand painted fancy cover with fancy cancellation of a pigeon, posted From Pigeon, West Virginia, USA, on 01 JUL, 1937



1897 Great Argus A pheasant bird *Error perforation shift*

1901 Overprint and color variety British Protectorate



Stylized birds- Some crested birds, like pigeons, parrots and birds of prey appeared as Coat Of Arms on Non Judicial Stamp papers of many erstwhile feudatory states in British India period, like this one from Sarakar Bhopalgarh State, priced at pre decimal currency of Two Annas.

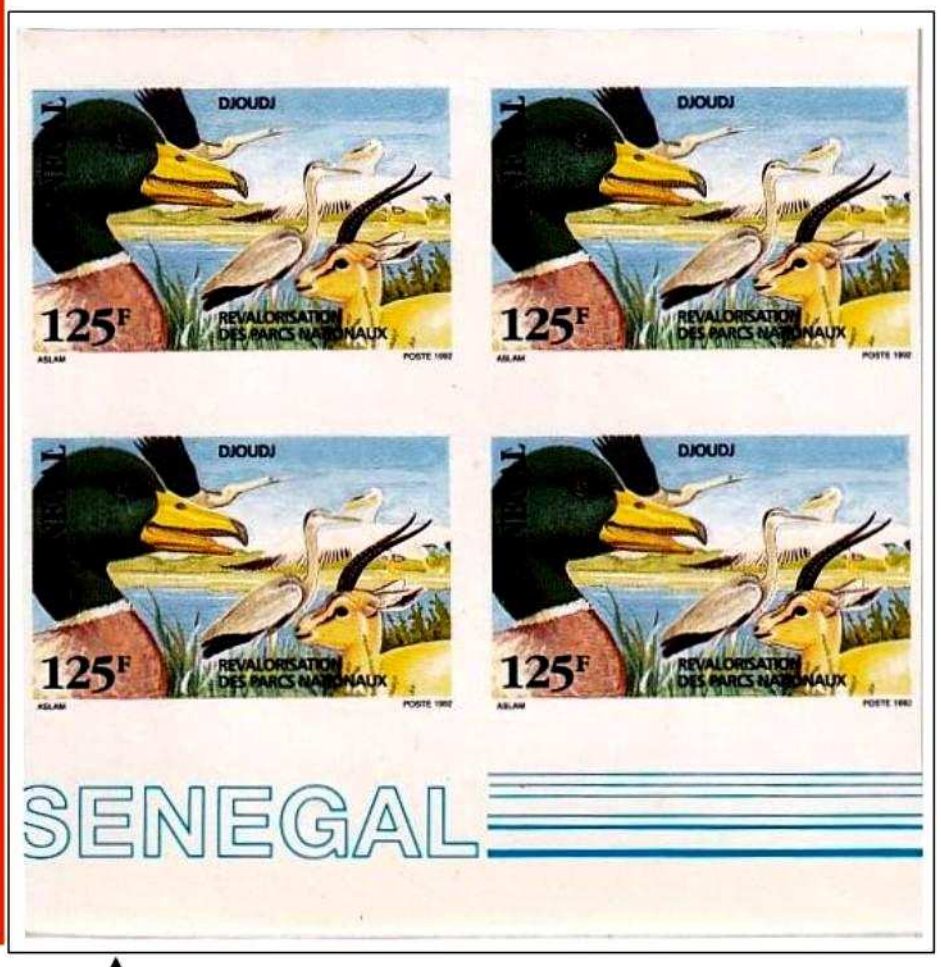
CURIOUS BEAKS—THE FACT FILES - TYPES OF BEAKS CONTD..

Pescatarian Beaks

Most simply, a pescatarian is someone who doesn't eat meat, but does eat **fish.** The term pescatarian was coined in the early 1990s and is a combi-nation of the Italian word for **fish**, "pesce," and the word "vegetarian." Sometimes it's spelled "pescetarian," but this means the same thing. Mostly Water birds and marine birds, including some birds of prey have such type of beaks.

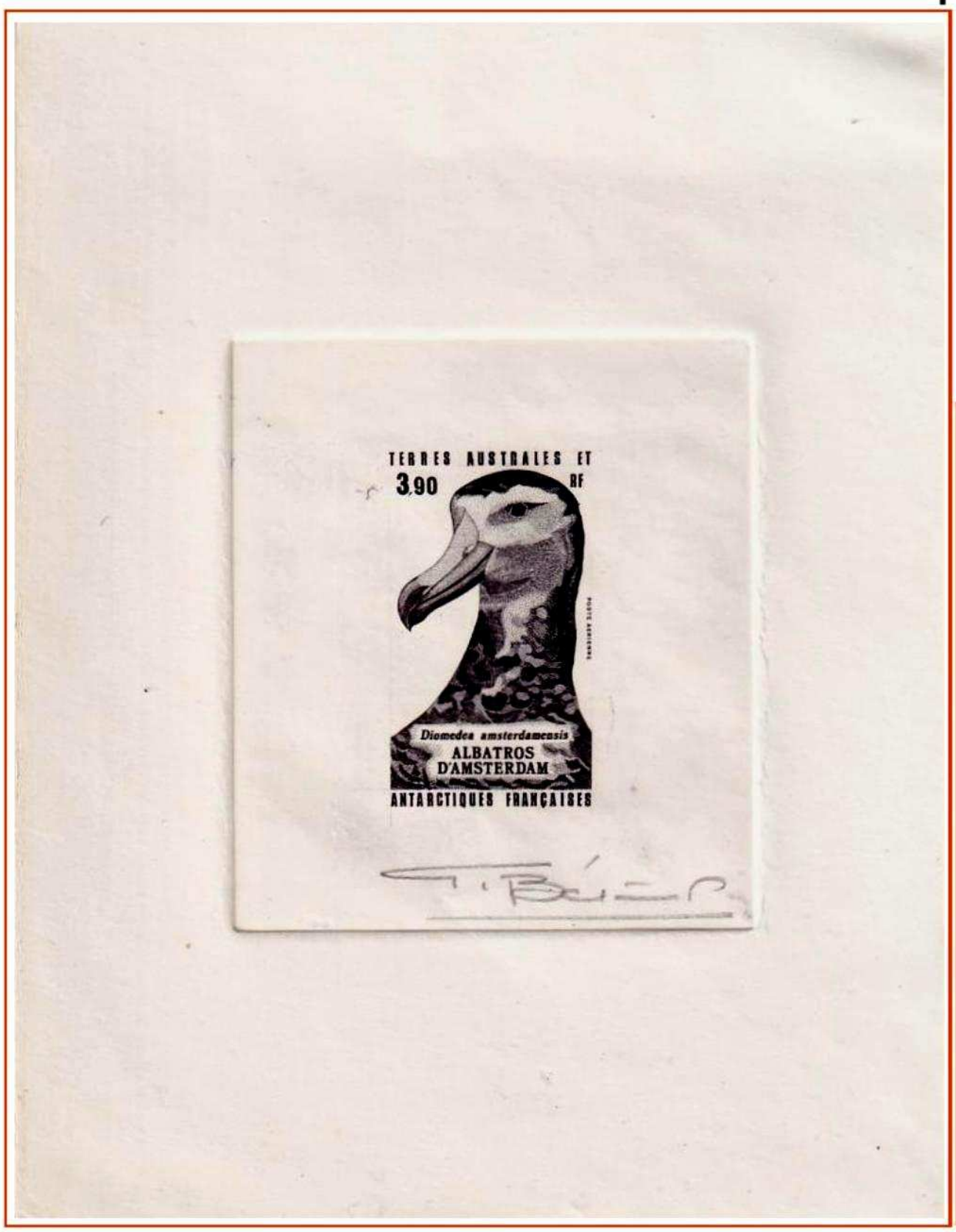
Essays-Unissued-Red Omitted—Kingfisher

Western Osprey-Color Variety-Issued 30.12.1992



Mallard Birds at National parks: Saloum, Djoudj, Niokolo-Koba, Basse Casamance -Imperf Block-Issued 23.03.1992

Gyrfalcon-Issued on 01.01.1930-Color Variety



Amsterdam Albatross -Artist Signe Proof

Error- Partial Dry Print - Top Right Stamp Affected Amsterdam Albatross -Issued 01.01.1985 Antarctic Wildlife

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES CONTD.

Hooked Beak - Meat Eaters

All raptors have the same beak design, curved at the tip with sharp cutting edges to tear apart prey that will easily fit into the mouth. The beaks have evolved over time based on the type of prey eaten. For example, the American Kestrel has a small beak for eating small prey, like mice and insects.

Albino -With Surcharge Ovpt

American Kestrel - Error and Varieties-Issued as Definitive on 20.02.1978

ATM-Frama -Error-Color Variety

Hooked Beak of Bald Eagle is sharp as razor and bent to slice off chunk of meat of its prey. Commemorative cover, 8th Annual Alaska Bald Eagle Festival

Kinesis-The Bite

Most birds with the important exception of birds of prey and parrots, catch & hold their food with their beaks alone. Many birds can raise the upper half of their bill, something known as Kinesis.

ERROR- RED & BLACK OMITTED
Lord Derby's Parakeet-
Issued 10.07.1975

Red Lory- Birds of the Antwerp Zoo- Minister's proof-Limited Issue to the VIPs amongst postal authorities seeking approval of the final design of the stamp. Issued 23.06.1962

CURIOUS BEAKS AND IT'S TYPES - THE FACT FILES CONTD.

Omnivorous Beaks (All Purpose Beaks) - Common Ravens are omnivorous foraging generalists, particularly fond of carrion and garbage. Their powerful bill enables them to feed on carcasses, small vertebrates, bird eggs, nestlings, insects, invertebrates (mollusks), seeds and fruits. These intelligent birds are known to temporarily cache buried food, hunt cooperatively in groups and post a sentinel when feeding. As ground gleaners, they forage by picking prey and food from the ground and vegetation as they walk (rather than hop).

Masked Wood Swallow -Error-Pink Omitted
Issued 01.07.1980 as Definitive

Australian Magpie - PERF & IMPERF
Issued 04.08.1986 at Stampex-86

CROWS - Propaganda stamps- Sheet-let with simulated perforations.
Issued during political solidarity by Poland during 1986

North Dakota Crow Control Stamps Booklet
Issued 1945 by North Dakota Game & Fish Department to control crow menace in the city. Buyer's name is required to be endorsed on purchase.

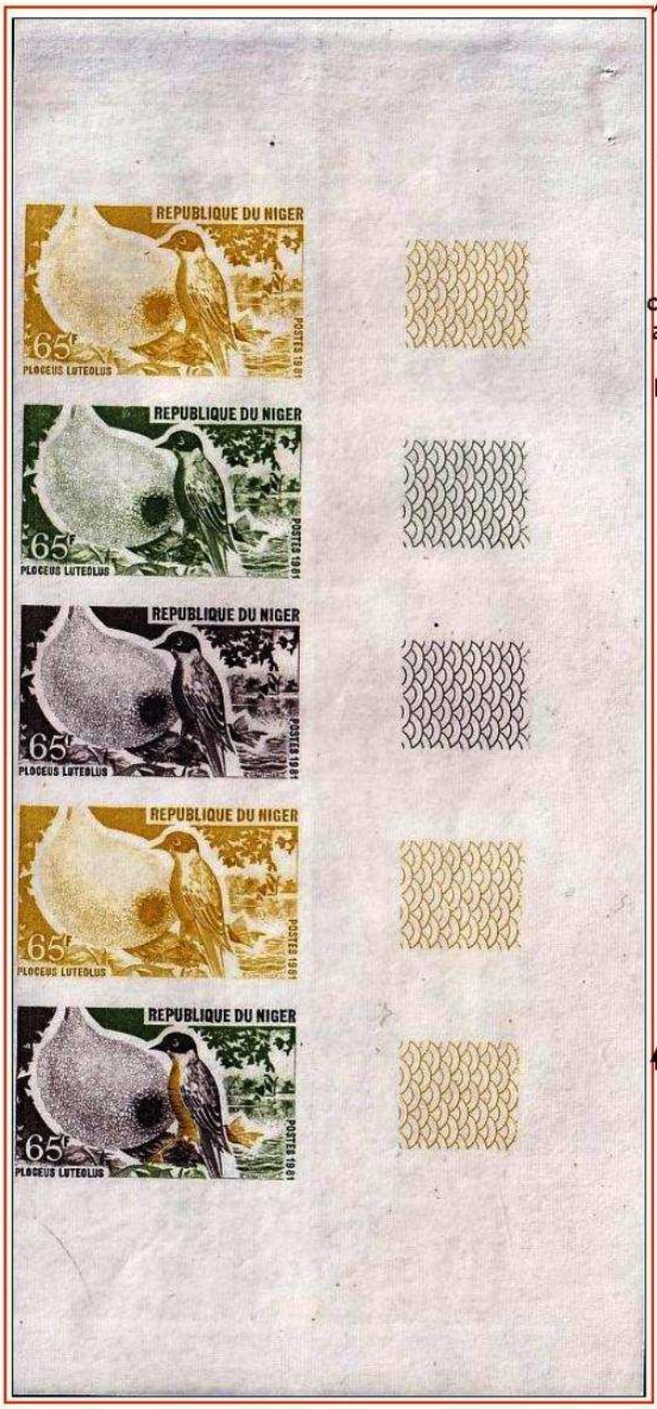
BEAK AS A MULTI FUNCTION TOOL

Does having a beak make up for *not* having teeth, paws, hands, antlers, horns or spines? It has to. Birds must rely on their beaks to carry out many different tasks.

Preening

Drinking

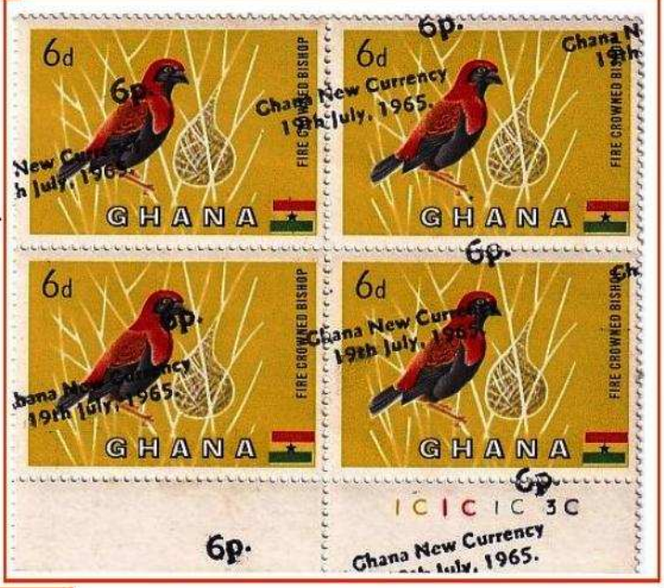
Nesting



Weaving a Nest- Little Weaver-Composite Marginal Imperf Block of progressive color trials-Issued 18.11.1967

Anhinga does not have waterproof feathers- It often preens its wings for oiling and drying with its beak. Ovpt. and Down-rated Block-Issued 16.12.1960

The number one use for the beak is to gather or capture food. Some beaks are specialized to be just right for certain diets. Birds with these bills use them the same way we use a spoon to eat ice cream or a fork to eat salad.



Singing -Error-Missing Legs Upper Stamp-Issued 08.08.1966

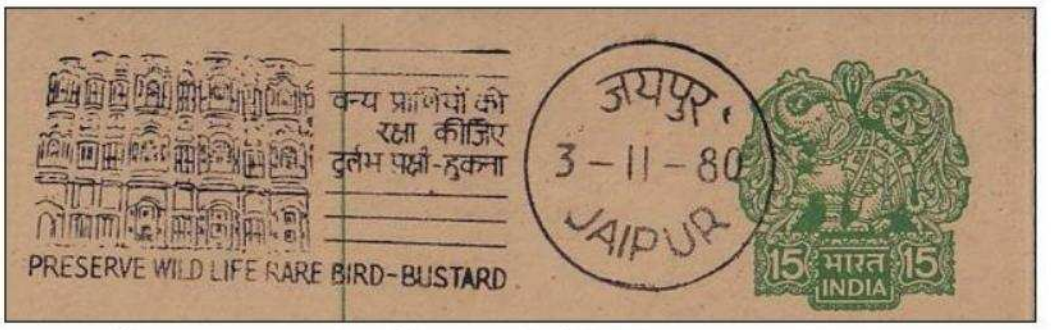
Beak full of fishes -Pelican Surcharged -Issued10.12.1962

Horned Beaks for defending Southern Cassowary -Issued 12.06.1974

BEAK EVOLVED... THE AFTER...

OVERTURE BY THE BIRDS

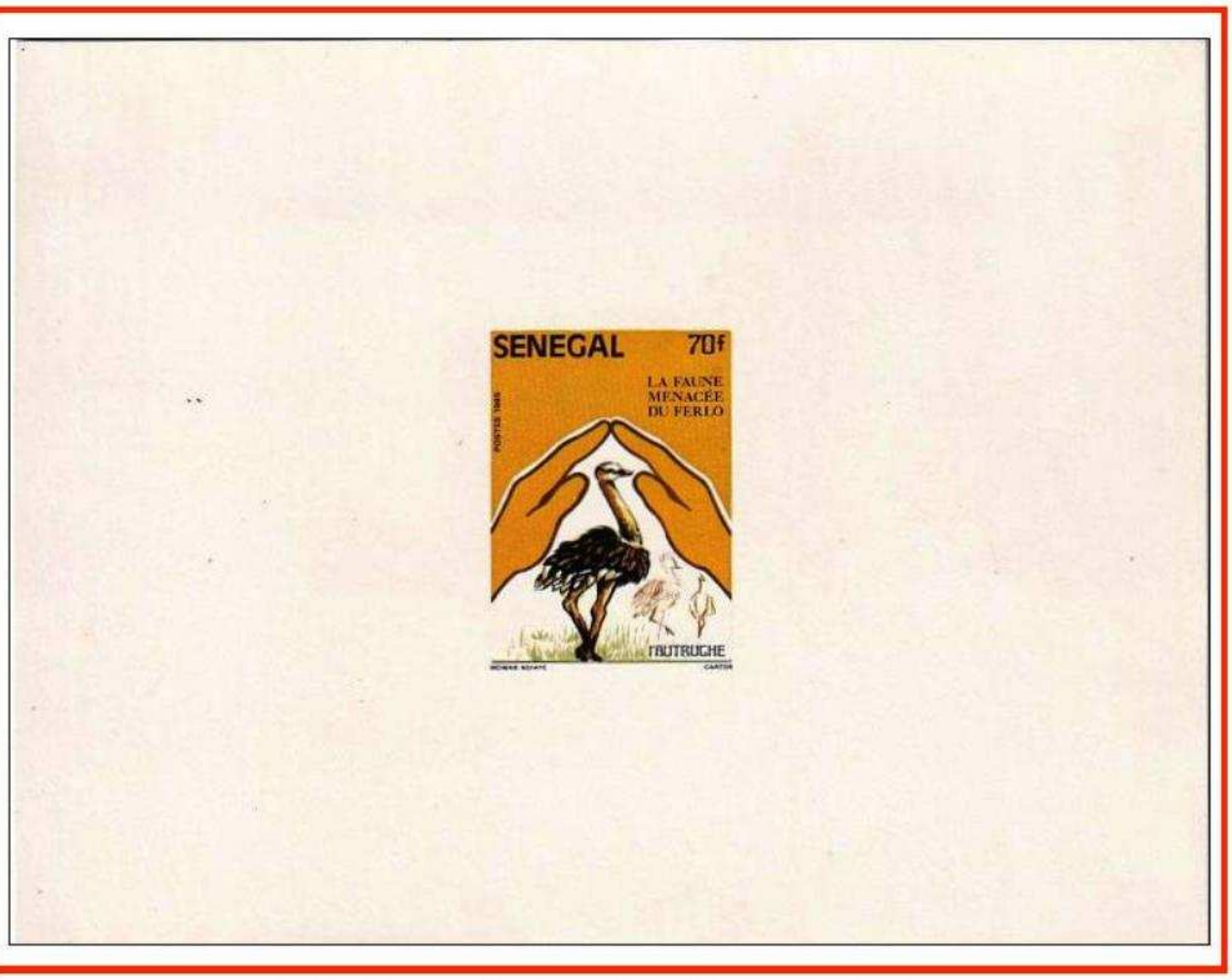
"We would have you to wit, that on eggs though we sit,
And are spiked on the spit, and are baked in a pan;
Birds are older by far than your ancestors are,
And made love and made war, ere the making of man!"
- Andrew Lang



Slogan on Post Card
Preserve wild life -Rare Bird-Bustard, Jaipur, India

EXTINCTION IS FOREVEVER LET US PRESERVE LIFE

Eruptions of 20th Century-Destruction of Life on Earth- Essay. Denomination of 60s was upped to 80s in Final Issue Issued on 21.09.1994 for the Tin Can Islands, by NIUAFO'OU, Kingdom of Tonga. This is from ARCHIVES



Ostrich Conservation at Ferlo National Park Senegal
Issued 19.02.1987–Deluxe Proof with stamp

Beaks of the Extinct Birds Self Adhesive
Odd Shaped Stamp Booklet Limited Issue