**ORNISTATS WIP**

**Data Processing**

* Partition data by group to satellite files
* Label and tidy linked and roaming records
* Setup group VLOOKUP site coordinates
* Upload sheets to website

R work

* Partition linked, roaming and standalone records

**Analysis**

Per group

* Wildfowl – model occurrences with [**changes** in] reporting rates of congeners

Per species

* At A Glance
  + Number of records
  + Irruption coefficient
  + Variability
  + Trend statement
  + Locational heterogeneity of occurrence (HG)
  + Temporal heterogeneity of occurrence (HL)
* Static/interactive map
  + All records, filters for date and location as necessary
  + Records by county (choropleth?)
* [If applicable], static or interactive graphs
  + Occurrences by year
    - Trend – [type?]regression analysis of tailored rolling average
  + Occurrences by date
  + Advanced analysis
    - Change in seasonal/universal arrival date/HT by location
    - Change in arrival date/HT over time
    - Change in location/HR/HS over time
  + Forecasting
* Record List (filterable, complete BBRC rarities only)

**Transfer to Website**

* Written accounts and pictures added in blocks in visual editor
* Static leaflet maps, static graphs and interactive plots embedded as html files
* Interactive maps – upload to GitHub, migrate to Digital Ocean or Heroku, embed in WordPress site using that URL

**PHOTO LIST**

**Have already**

Red-breasted Goose

Cackling Goose

Baikal Teal

Pied-billed Grebe

White-tailed Lapwing

Pacific Golden Plover

Greater/Desert Sand Plover

Long-toed Stint

Greater Yellowlegs

Franklin’s Gull

American Herring Gull

Squacco Heron

Snowy Owl

Iberian Chiffchaff

Two-barred Greenish Warbler

Great Reed Warbler

Eastern Subalpine Warbler

Northern Mockingbird

Black-throated Thrush

American Robin

Rufous Bushchat

Collared Flycatcher

Taiga Flycatcher

Siberian Stonechat

Desert Wheatear

Pied Wheatear

Alpine Accentor

Siberian Accentor

Eastern Yellow Wagtail

**Ask Dad**

Ferruginous Duck

Pallid Swift

Little Bustard

Cape Gull

Brünnich’s Guillemot

Madeiran Petrel

Dalmatian Pelican

Pallid Harrier

Roller

Belted Kingfisher

Eleonora’s Falcon

Red-eyed Vireo

Sykes’s Warbler

Pallas’s Grasshopper Warbler

Marmora’s Warbler (abroad)

Moltoni’s Warbler

Grey Catbird

Buff-bellied Pipit

Blackburnian Warbler

Indigo Bunting

Stejneger’s Stonechat

Isabelline Wheatear

**Ask Mates**

Common Nighthawk

White-rumped Swift

Little Swift

Yellow-billed Cuckoo

Rufous Turtle Dove

Little Crake

Grey-headed Lapwing

Sociable Plover

Semipalmated Plover

Broad-billed Sandpiper

Sharp-tailed Sandpiper

Red-necked Stint

Western Sandpiper

Short-billed Dowitcher

Great Snipe

Wilson’s Snipe

Spotted Sandpiper

Collared Pratincole

Black-winged Pratincole

Bonaparte’s Gull

Cabot’s Tern

Least Tern

Forster’s Tern

Pacific Diver

Black-browed Albatross

Scopoli’s Shearwater

Brown Booby

Double-crested Cormorant

Egyptian Vulture

Lesser Kestrel

Alder Flycatcher

Brown Shrike

Hume’s Warbler

River Warbler

Asian Desert Warbler

White’s Thrush

Grey-cheeked Thrush  
Swainson’s Thrush

Eyebrowed Thrush

Dusky Thrush

Thrush Nightingale

Blue Rock Thrush

Masked Wagtail

Song Sparrow

White-crowned Sparrow

White-throated Sparrow

Yellow Warbler

Blackpoll Warbler

Myrtle Warbler

Bobolink

Baltimore Oriole

Scarlet Tanager

**Abroad Pictures**

Steller’s Eider

Great Spotted Cuckoo

Baillon’s Crake

Western Swamphen

Caspian Plover

Audouin’s Gull

Caspian Tern

Whiskered Tern

Fea’s/Desertas Petrel (Dad)

Little Bittern

Hawk Owl

Nutcracker

Crested Lark

Eastern Bonelli’s Warbler

Eastern Olivaceous Warbler

Sardinian Warbler

Rüppell’s Warbler

Spanish Sparrow

Black-headed Wagtail

Cretzschmar’s Bunting

**Ask Twitter (last resort)**

Canvasback

Redhead

American White-winged Scoter

Stejneger’s Scoter

Black Scoter

Bufflehead

Barrow’s Goldeneye

Hooded Merganser

Chimney Swift

Pacific Swift

Black-billed Cuckoo

Pallas’s Sandgrouse

Mourning Dove

Sora

Allen’s Gallinule

American Purple Gallinule

American Coot

Sandhill Crane

Killdeer

Mongolian Sand Plover

Siberian Sand Plover

Upland Sandpiper

Hudsonian Whimbrel

Little Whimbrel

Hudsonian Godwit

Great Knot

Stilt Sandpiper

Baird’s Sandpiper

Least Sandpiper

Semipalmated Sandpiper

Terek Sandpiper

Wilson’s Phalarope

Solitary Sandpiper

Grey-tailed Tattler

Marsh Sandpiper

Cream-coloured Courser

Oriental Pratincole

Ivory Gull

Slender-billed Gull

Ross’s Gull

Laughing Gull

Glaucous-winged Gull

Vega Gull

Thayer’s Gull

Azorean Yellow-legged Gull

Gull-billed Tern

Royal tern sp.

Lesser Crested Tern

Aleutian Tern

Sooty Tern

Bridled Tern

American Black Tern

Long-billed Murrelet

Ancient Murrelet

Tufted Puffin

Red-billed Tropicbird

Black or White-bellied Storm Petrel

Atlantic Yellow-nosed Albatross

Swinhoe’s Petrel

Black-capped Petrel

White-chinned Petrel

Yelkouan Shearwater

Barolo Shearwater

Short-tailed Shearwater

Ascension Frigatebird

Magnificent Frigatebird

Red-footed Booby

American Bittern

Least Bittern

Green Heron

Chinese Pond Heron

Great Blue Heron

Little Blue Heron

Snowy Egret

Short-toed Eagle

Dark-breasted Barn Owl

Scops Owl

Tengmalm’s Owl

Blue-cheeked Bee-eater

Yellow-bellied Sapsucker

American Kestrel

Amur Falcon

Gyrfalcon

Eastern Phoebe

Acadian Flycatcher

Yellow-bellied Flycatcher

Eastern Kingbird

Isabelline shrike sp.

Long-tailed Shrike

Lesser Grey Shrike

Steppe Grey Shrike

Masked Shrike

Yellow-throated Vireo

Philadelphia Vireo

Cedar Waxwing

Bimaculated Lark

Calandra Lark

Black Lark

Lesser Short-toed Lark

Tree Swallow

Purple Martin

Crag Martin

Cliff Swallow

Western Bonelli’s Warbler

Sulphur-bellied Warbler

Eastern Crowned Warbler

Green Warbler

Pale-legged Leaf Warbler

Paddyfield Warbler

Thick-billed Warbler

Booted Warbler

Olive-tree Warbler

Lanceolated Warbler

Zitting Cisticola

Western Orphean Warbler

Eastern Orphean Warbler

Spectacled Warbler

Ruby-crowned Kinglet

Red-breasted Nuthatch

Wallcreeper

Short-toed Treecreeper

Brown Thrasher

Siberian Thrush

Varied Thrush

Veery

Hermit Thrush

Wood Thrush

Red-throated Thrush

Naumann’s Thrush

Brown Flycatcher

Siberian Blue Robin

Rufous-tailed Robin

Eastern Nightingale

White-throated Robin

Siberian Rubythroat

Moussier’s Redstart

Rock Thrush

Caspian Stonechat

Western Black-eared Wheatear

Eastern Black-eared Wheatear

White-crowned Black Wheatear

Rock Sparrow

Ashy-headed Wagtail

Iberian Wagtail

East Siberian White Wagtail

Amur Wagtail

Pechora Pipit

Evening Grosbeak

Pine Grosbeak

Trumpeter Finch

Two-barred Crossbill

Citril Finch

Pine Bunting

Rock Bunting

Chestnut-eared Bunting

Yellow-browed Bunting

Yellow-breasted Bunting

Chestnut Bunting

Black-headed Bunting

Black-faced Bunting

Pallas’s Reed Bunting

Red Fox Sparrow

Savannah Sparrow

Lark Sparrow

Eastern Towhee

Ovenbird

Northern Waterthrush

Golden-winged Warbler

Blue-winged Warbler

Black-and-white Warbler

Tennessee Warbler

Common Yellowthroat

Hooded Warbler

American Redstart

Cape May Warbler

Northern Parula

Magnolia Warbler

Bay-breasted Warbler

Chestnut-sided Warbler

Wilson’s Warbler

Red-winged Blackbird

Brown-headed Cowbird

Summer Tanager

Rose-breasted Grosbeak