



Level 4



- recap -



Dr. Oldfeather

My lovely species "Hurracurra Bird", it is the most awesome species, prefers to eat the "Hurracurra Worm". Those worms can only be found in hot regions. I love those worms because they grow up to a length of 60 centimeters. Incredible! And the worm don't have eyes, but they can sense light, vibrations, and chemicals in their environment, helping them avoid danger and find food. Ah.. What was the question?



Dr. Beak Geek

Ah.. Yes.. The Flanking Blackfinch.. Like the Earth around the sun, flocks of these special birds orbit a chosen land. They always try to stay together because they are crazy about each other!



Tweet Investigator

The Red Firefinches love and nest together in their main breeding area. Occasionally, each of them goes off to experience their own adventures.



Sir Chirp Alot

After spending a wonderful journey together, the Rusty Goldhammers feel a need for some "me-time" and split up for their way back.



Eggsplorer Extraordinaire

The Sticky Wolfthroats are birds of prey and eat the Medieval Bluetits because their routes are easy to predict. They operate in independent groups and lie in wait along several segments of the Bluetits' routes.

Medieval Bluetits fly back along the same route they came as they can't remember much.



Dr. Dr. Wingman



Level 4: Going Global



You classified all species correctly – great job!

Many ornithologists around the world have been encouraged to share migration paths of your favorite bird species.

Thus, you find yourself with a lot of new migration records.

To expand the knowledge base even further, you want to identify the species for migration patterns of other ornithologists.



continue



Level 4: Going Global

- You have records of travelling paths of individual birds
- Each bird (row) belongs to exactly one flock
- Each flock is one of the 6 species

CSV Sample (included in level_4.zip):

```
Flock ID, BOP Path, Species
3, 2008 1246 2065 2265 2008, Sticky Wolfthroat
3, 2008 1246 2065 1511 2008, Sticky Wolfthroat
17, 1094 769 1387 2097 447 675 1094, missing
17, 1094 2112 28 1761 1322 2393 1094, missing
```

note: The spaces after commas in this csv sample are just for readability, they are not in real *.in files

- You might reuse temperature data from level 1 (included in level_4.zip, but beware of the °F-bug)

continue

Level 4: Acceptance Criteria

For this level to succeed, upload a csv file, containing the predictions for all “missing” Species.

Species names (included in level_4.zip):

```
Hurracurra Bird
Medieval Bluetit
Flanking Blackfinch
Rusty Goldhammer
Red Firefinch
Sticky Wolfthroat
```

Submission sample (included in level_4.zip):

```
Flock ID,Species
17,Red Firefinch ← your guess for Flock ID 17
```

You will need a score above 90% to complete the level (F1 Macro).

That's it – good luck!



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