

ARISE target list

Onno Calf

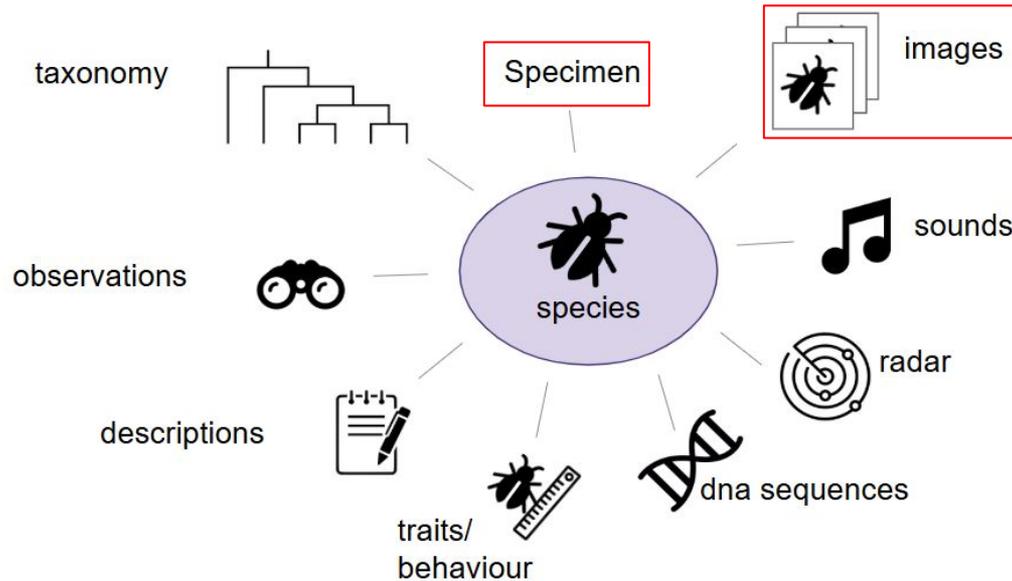
iBOL Europe July 28, 2025





What is ARISE?

The ARISE project builds an infrastructure that will identify and monitor all multicellular species in the Netherlands



Goal team sampling

- Obtain and image 3 validated specimens of each species in the Netherlands



Teams

Lotte



Steering Board

Programme Management

Elaine



Emiel



Onno



Apps

Jessica



Monitoring Demonstration Sites

Sampling

Sample to DNA ID

Biocloud

Sensor to AI ID

Sequencing Lab

Sequencing Analysis

Digital Sp ID

Data & solution architecture



Victor



Kevin



Rutger



Jacob



So far, the sampling team has handled a total of

138.838

specimens!

Identify all species

An overview of the availability of DNA reference barcodes for all known Dutch species published in BOLD.

This information can be used to easily identify gaps in the Dutch DNA species reference barcode database.



Animalia ⓘ

[View species](#)



Plantae ⓘ

[View species](#)



Fungi ⓘ

[View species](#)

● ARISE ● Other organizations ● Shared

Search

Recently viewed

[Piersigia intermedia](#) species >

[Diaphana minuta](#) species >

[Apiloscatopse picea](#) species >

Collect Samples & Metadata





Request Sampling Kit

Do you want to collect for Arise?

Name * Expertise *

Email *

Write a message



Collect Samples



Collect Metadata

< Add registration

Step 2 of 6

Group/Project

Date and time*

Location with lat and long*

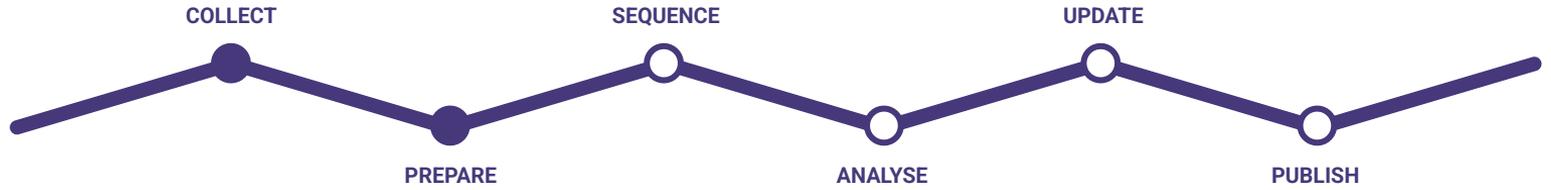
Place



Altitude (m)

Biotope

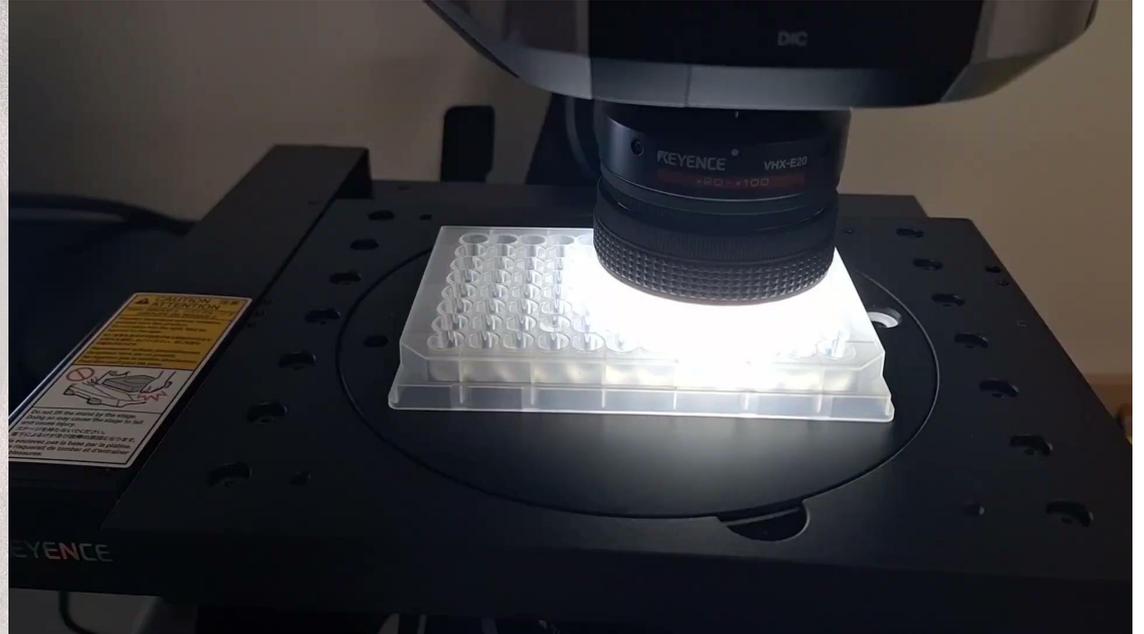
Home Overview Wishlist







Automate processes in the lab





DNA dashboard

Home

DNA Dashboard

Search

ID, species

Specimen ID	Status	ID by collector	Sequences	ID by analysis	Location
RMNH.ARA.4901	received	Acropora palmata	1		Kralendijk
RMNH.ARA.8372	received	Acropora cervicornis	1		Rinconada
RMNH.ARA.7612	received	Dipturus laevis	1		Klein Kura
RMNH.ARA.7126	received		2		Kralendijk
RMNH.ARA.1123	in lab	Hymenopneaus debilis	3		Rinconada
RMNH.ARA.1253	in lab		3		Klein Kura
RMNH.ARA.9876	in lab	Acropora palmata	2	Acropora palmata	Kralendijk
RMNH.ARA.7456	received	Dipturus laevis	2	Dipturus bullisi	Bonaire
RMNH.ARA.2471	analyzed		1		Klein Kura
RMNH.ARA.2345	analyzed	Hydrologus alberti	1	Hydrologus alberti	Kralendijk
RMNH.ARA.8234	received		1		Rinconada
RMNH.ARA.2375	in lab	Phyllodoce erythropHYlia	1		Klein Kura
RMNH.ARA.1253	analyzed	Dipturus laevis	2		Bonaire
RMNH.ARA.9876	received		1		Klein Kura
RMNH.ARA.7456	in lab	Hydrologus alberti	1		Kralendijk
RMNH.ARA.2471	in lab	Phyllodoce erythropHYlia	2		Bonaire

Go to page:



Target List

Status July 10, 2025

50.194 species in Dutch species register

- Updates required

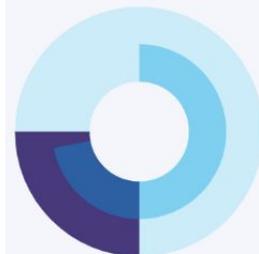
43.092 species considered established

37.948 est. species **WANTED**

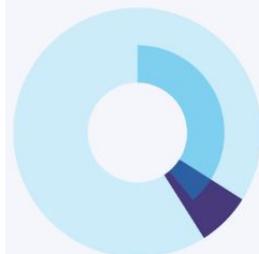
- **14.815** est. species without worldwide references (Prio1)
- **4.514** est. species <3 worldwide references (Prio2)
- **18.619** est. species with <3 Dutch references (Prio3)



Animalia 



Plantae 



Fungi 



So far, the sampling team has handled a total of

138.838

specimens!



We need expertise!

- **138.838** specimens collected
- **48.288** already have a barcode
- **~17.600** identified to **6.403** species
- **~121.250** specimens yet unidentified from bulk samples (BLAST-assisted identification)
- We need experts (YOU?) to collect, identify AND validate!
- Still **14.815** MOST WANTED species
(Established species without ANY published barcodes)

Group	MOST WANTED	Experts
Hymenoptera	1729	29
Arachnida	1261	6
Diptera	1135	44
Agaricomycetes	1107	16
Nematoda	661	2
Coleoptera	469	22
Trombidiformes	403	2
Rotifera	359	1
Hemiptera	327	6



Filling the targetlist

- Collecting specimens from the field
- Collection mining
- Identifying bulk specimens
- Validate generated barcodes

Please reach out to us with recommendations or anything else you want to share...

info@arise-biodiversity.nl



