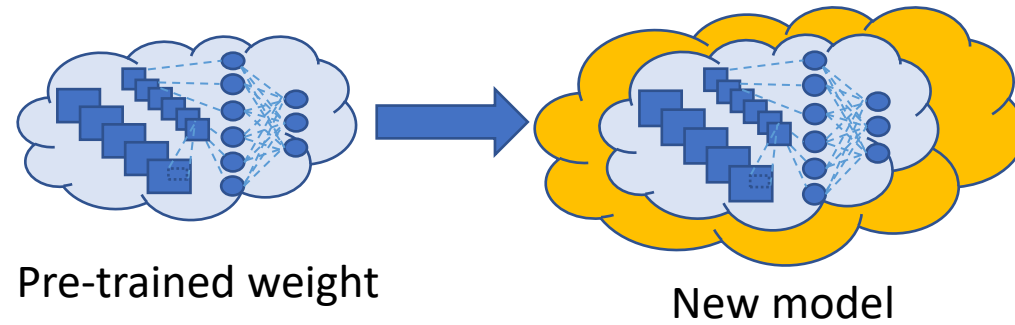


Transfer Learning



- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
- Upload Data
- User Uploaded Images
- North Sea Images
- Baltic Sea Images
- AI Predictions
- Logout

Domain: datasets_user

Filter Based on Data Subset

all

FILTER

Training folder name	Pre-requisites	Annotations	AI Methods
train_sample_0	valid_sample_0	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_1	valid_sample_1	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_2	valid_sample_2	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>

Folder: train_sample_1

Go back

Refresh

<<

Page 1 of 1

>>

Run Label:

newrun

AI-Method:

U-Net

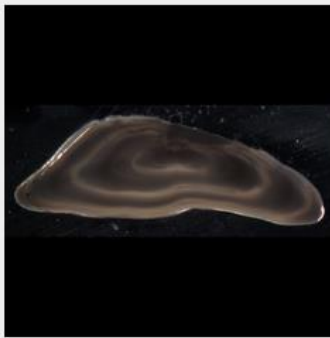
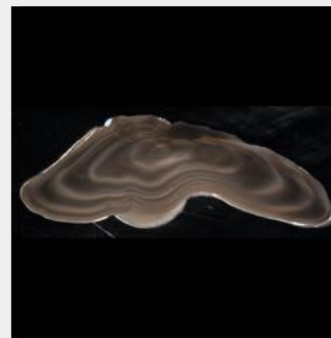
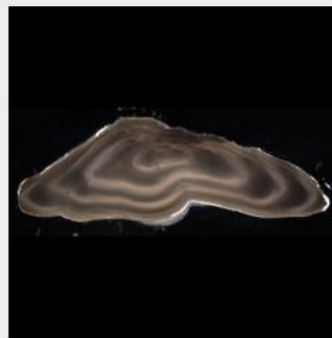
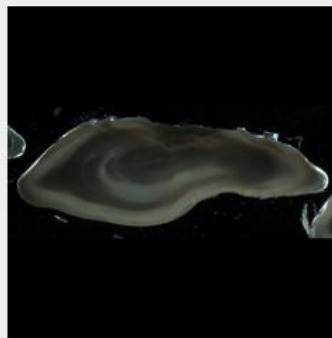
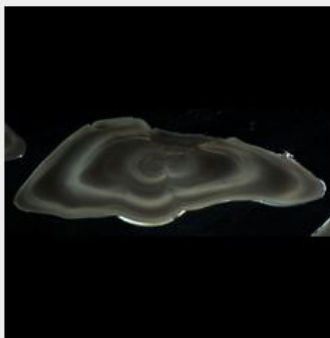
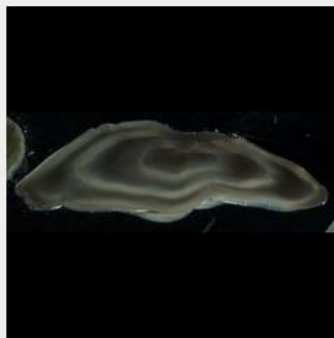
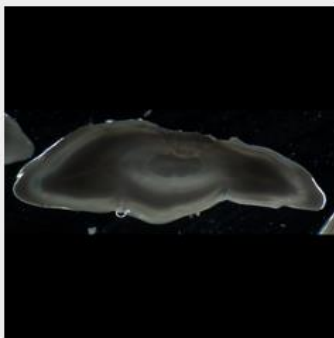
Select the pre-trained weight to load

Transfer Learning Weights:

datasets_baltic // unet_0exkfoldbasedvgg0run1_37 model

Start Process:

START MODEL TRAINING



Images



Getting Started



Sampling Stations



Annotation Tool



Experiments



Upload Data



User Uploaded Images



North Sea Images



Baltic Sea Images

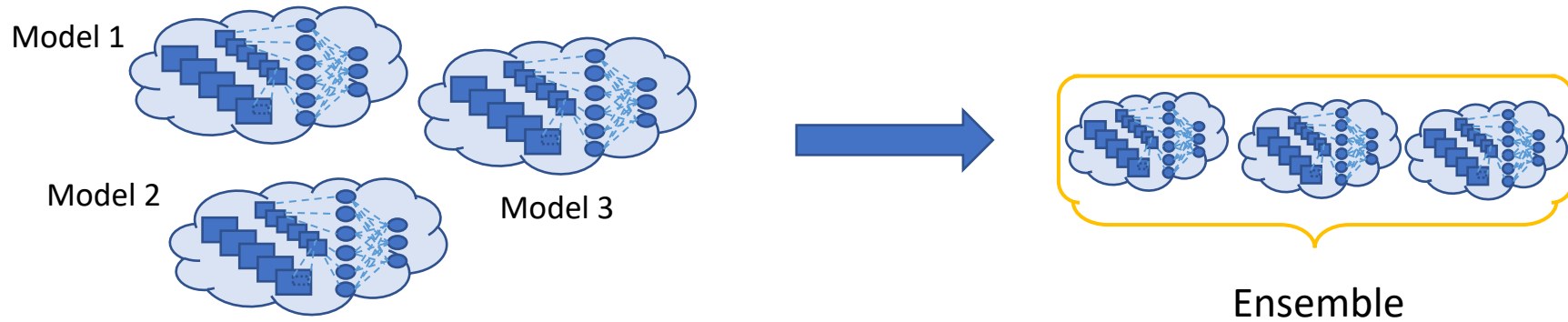


AI Predictions



Logout

Ensemble Learning



- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
- Upload Data
- User Uploaded Images
- North Sea Images
- Baltic Sea Images
- AI Predictions
- Logout

Domain: datasets_user

Filter Based on Data Subset

all

FILTER

Training folder name	Pre-requisites	Annotations	AI Methods
train_sample_0	valid_sample_0	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_1	valid_sample_1	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_2	valid_sample_2	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>

Folder: train_sample_0

Go back

Refresh

<<

Page 1 of 1

>>

Ensemble method:

Averaging

Can also be LinearRegression or RandomForest

Select **Constituent Models**
(requires more than one,
press CTRL while selecting):

[\[Link to generate required predictions\]](#)

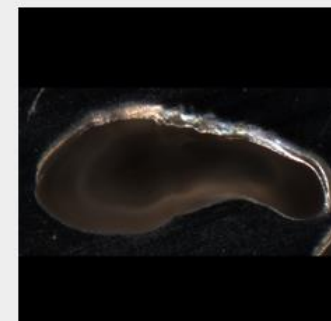
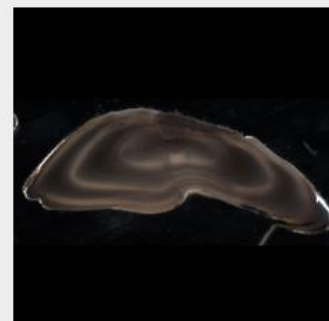
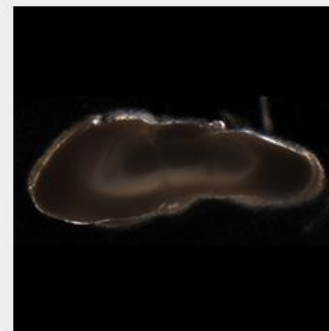
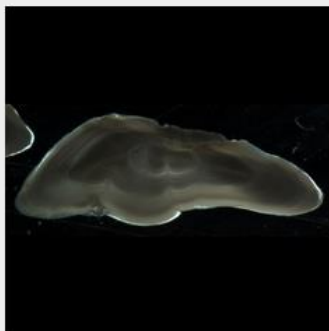
```
datasets_user // mrcnn_newtest predictions
datasets_user // mrcnn_ex0combobasedcoco predictions
datasets_user // unet_newrun predictions
```

Generate predictions of constituent models first

[Link to initiate basic model testing page to
generate predictions](#)

Start Process:

START ENSEMBLE TRAINING



Images



Getting Started



Sampling Stations



Annotation Tool



Experiments



Upload Data



User Uploaded Images



North Sea Images



Baltic Sea Images



AI Predictions



Logout

- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
- Upload Data
- User Uploaded Images
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- AI Predictions
- Logout

Domain: datasets_user

Filter Based on Data Subset

all

FILTER

Training folder name	Pre-requisites	Annotations	AI Methods
train_sample_0	valid_sample_0	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_1	valid_sample_1	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>
train_sample_2	valid_sample_2	Create/Edit/View Annotations	<div>Train (U-Net/MRCNN)</div> <div>Predict (U-Net/MRCNN)</div> <div>Train (Ensemble)</div> <div>Predict (Ensemble)</div>

Folder: train_sample_1

Go back

Refresh

Generate predictions of constituent models first

<<

Page 1 of 1

>>

Constituent Predictions (as
required by the selected
ensemble model):

[\[Link to generate required predictions\]](#)

```
datasets_user // mrcnn_newtest predictions
datasets_user // mrcnn_ex0combobasedcoco predictions
datasets_user // unet_newrun predictions
```

Link to initiate basic model testing page to
generate predictions

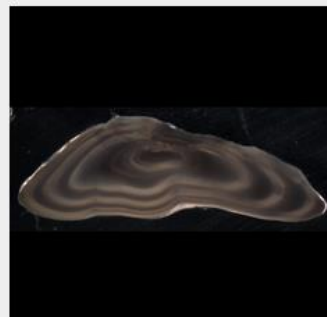
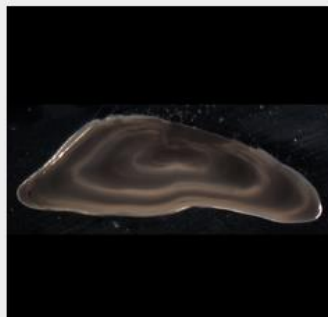
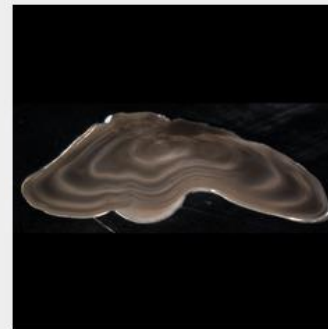
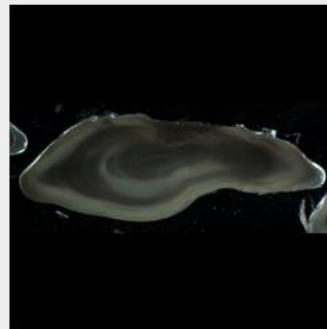
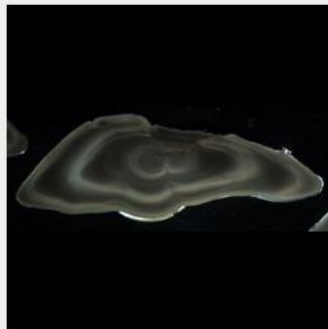
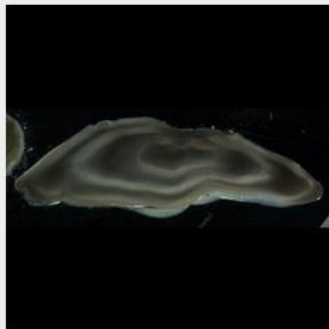
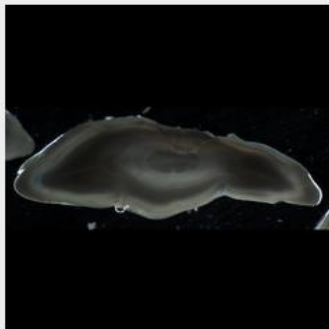
Current Ensemble Models:

```
datasets_user // train_sample_0 // RandomForest.pkl
```

Existing ensemble

Start Process:

START ENSEMBLE TESTING



Images



Getting Started



Sampling Stations



Annotation Tool



Experiments



Upload Data



User Uploaded Images



North Sea Images














Baltic Sea Images



AI Predictions



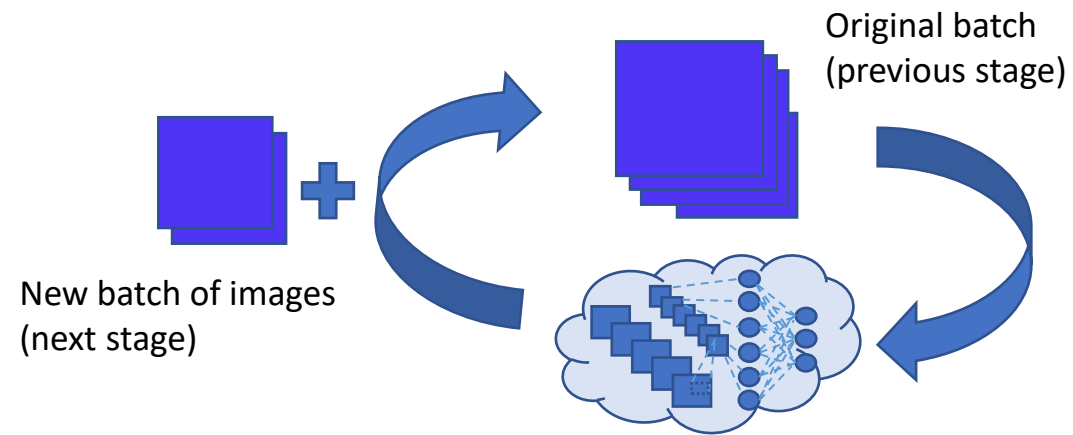
Logout

-  Images
-  Getting Started
-  Sampling Stations
-  Annotation Tool
-  Experiments
-  Upload Data
-  User Uploaded Images
-  North Sea Images
-  Baltic Sea Images
-  AI Predictions
-  Logout

Section: Datasets

Image Name	AI Reading (87%)	Manual Reading
16_716_12.png	2	2
16_716_45.png	3	3
16_716_46.png	3	3
16_716_66.png	2	2
17_731_108.png	4	4
17_731_116.png	5	5
17_731_152.png	1	1
17_731_181.png	5	5
17_731_192.png	3	3
17_731_213.png	4	4
17_731_248.png	1	1
17_731_249.png	1	1
17_731_304.png	1	1
17_731_385.png	1	1
17_731_86.png	1	1

Continual Learning



Folder: train_sample_0

Take note of the run and folder names

Stage 1 (training with any existing weight)

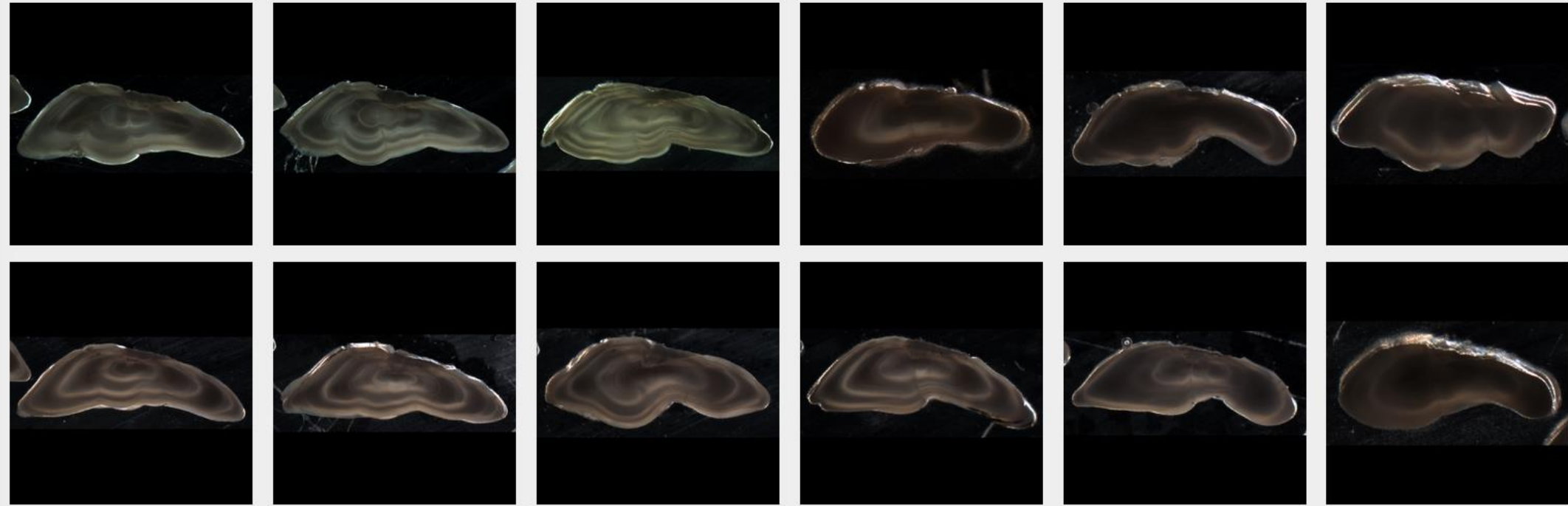
Go back Refresh

Run Label (alphanumeric): testcontinual

AI-Method: U-Net

Transfer Learning Weights: datasets_north // unet_test0run1_47 model

Start Process: START MODEL TRAINING



- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
- Upload Data
- User Uploaded Images
- North Sea Images
- Baltic Sea Images
- AI Predictions
- Logout

- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
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- User Uploaded Images
- North Sea Images
- Baltic Sea Images
- AI Predictions
- Logout

Folder: train_sample_1

New folder with
new images

Go back

Refresh

<<

Page 1 of 1

>>

Run Label (alphanumeric):

testcontinualnext

Stage 2 (training
continues by reloading
previous run weight)

AI-Method:

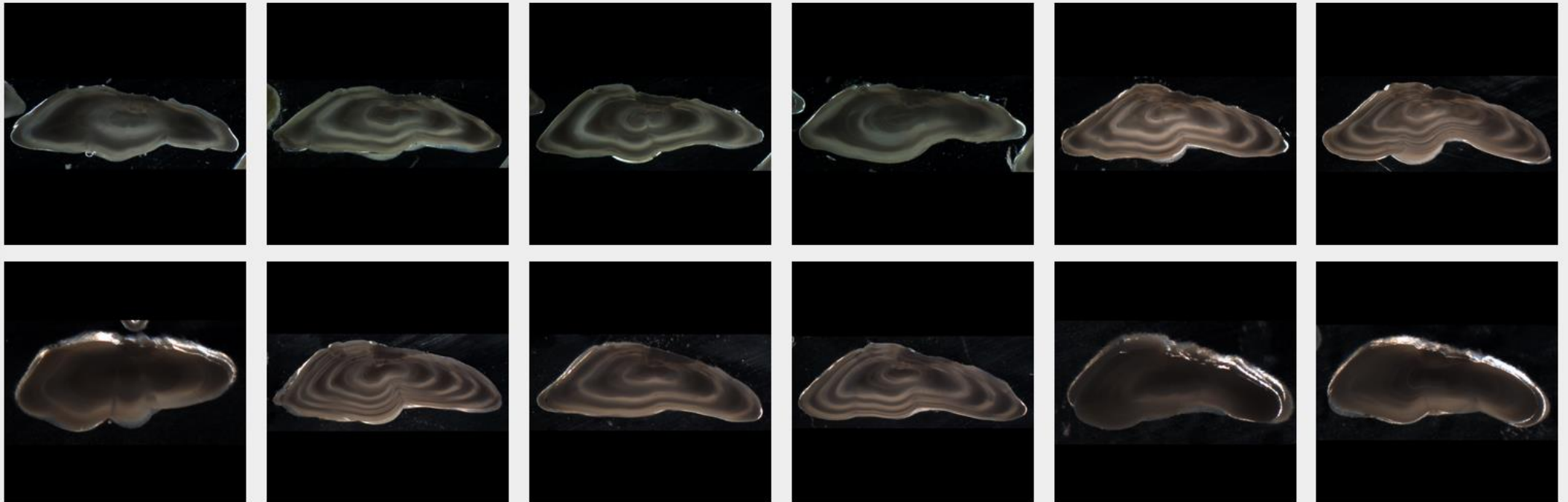
U-Net

Transfer Learning Weights:

datasets_user // unet_testcontinual00run1_37 model

Start Process:

START MODEL TRAINING



- Images
- Getting Started
- Sampling Stations
- Annotation Tool
- Experiments
- Upload Data
- User Uploaded Images
- North Sea Images
- Baltic Sea Images
- AI Predictions
- Logout

Folder: train_sample_2

New folder with
new images

Go back

Refresh

<<

Page 1 of 1

>>

Run Label (alphanumeric):

testcontinualfinal

Stage 3 (training again
continues by reloading
previous run weight)

AI-Method:

U-Net

Transfer Learning Weights:

datasets_user // unet_testcontinualnext0run1_37 model

Start Process:

START MODEL TRAINING

