

# BirdNET-Pi – Simplified modification

The following instructions can be used to easily either install BirdNET-Pi/Nachtzuster or migrate to this version from BirdNET-Pi/McGuire and then install Swedish adaptation. The Translate folder also contains various documents. In addition to this document, there are instructions on how data from SMHI (Swedish Weather Service) can be inserted under the heading.

## New installation of Nachtzuster or upgrade from McGuire to Nachtzuster

Follow the instructions for installation or upgrade in the following link:  
<https://github.com/Nachtzuster/BirdNET-Pi> When the installation is complete and the computer has restarted and all settings have been made in “Tools – Settings”, log in to the terminal window via Tools – Web Terminal and copy and paste the following command (all lines at the same time) after the command prompt and press Enter. Copy the command in e.g. Notepad first, to avoid problems with invisible line breaks. First, replace the text “COUNTRYNAME” in red below to the English name of your country in lowercase and replace the text in red with the name or location you want in the header next to the text “BirdNET-Pi” at the top of the page. When upgrading from McGuire, the settings are included as well as the database and recordings, but the location must be updated.

```
cd ~/BirdNET-Pi && \
wget -O nyinstallation.sh \
https://svardsten.com/birdnetpi/nachtzuster/countryname/nyinstallation.sh && \
sudo chmod u+x nyinstallation.sh && \
dos2unix nyinstallation.sh && \
echo 'export PLATS="Write your Location here"' >> ~/.bashrc && \
source ~/.bashrc && \
bash nyinstallation.sh
```

If upgrading from McGuire to Nachtzuster, you should first upgrade the operating system with the following three commands:

```
sudo apt update
```

```
sudo apt upgrade  
sudo apt autoremove
```

Firmware upgrades can be done if necessary with the following commands:

```
sudo apt update  
sudo apt install --only-upgrade raspberrypi-bootloader raspberrypi-kernel
```

## Update of Nachtzuster

After updating an existing installation with Nachtzuster, for example when corrections or new functions have been added, do the following.

Log in to the terminal window via Tools – Web Terminal and copy and paste the following command after the command prompt and press Enter. Update does not need to be done via the menu beforehand! Copy the command in e.g. Notepad first, this will avoid problems with invisible line breaks in.

If national adaptation has already been run, there is an option under Tools – System Controls that does the same thing as the command below and this can be run in the future if you wish. Replace the text "COUNTRYNAME" in red below to the English name of your country in lowercase.

```
cd ~/BirdNET-Pi && wget -O uppgradering.sh \  
https://svardsten.com/birdnetpi/nachtzuster/countryname/uppgradering.sh && sudo  
chmod u+x \  
uppgradering.sh && dos2unix uppgradering.sh && ./uppgradering.sh
```

Everything has been tested several times on my own installation, but I can't guarantee anything for others. Please back up old data before upgrading, for example by cloning the memory card!

If you want to go back to the original version, this is done with the following command or by clicking "Update" in "System Controls" in tools menu.

```
cd ~/BirdNET-Pi/Translate/skript && sudo ./3_restoreorg.sh
```

## Other

When migrating from McGuire to Nachtzuster, error messages may appear even on a completely unmodified installation and some menu options will not work. After running the command during the new installation above, everything should work normally again.

Since the McGuire version does not support the Bookworm operating system, it cannot be installed on a Raspberry Pi 5, as this requires Bookworm. McGuire runs on the Bullseye operating system.

If you want to run on the latest operating system, a completely new installation must be done on an empty memory card. However, the database and recordings can be transferred to the new installation if these have been saved before. If you have run the Nachtzuster version on Bullseye before, you can make a backup of important data in the tools menu, which can then be restored when you have made a new installation on Bookworm. Restore old data before running the new installation script above.

Regular memory cards wear out over time and have a limited lifespan. A faster, safer and more economical alternative for larger amounts of data is to buy an SSD drive. The old memory card can be copied to this using a suitable tool, after which the operating system expands the file system so that the entire disk is used. The system's boot order should also be changed so that it starts from the SSD drive.

Before updating, it may be a good idea to take a look at the modification's change log, where I also write if there is anything special you need to consider.

<https://svardsten.com/birdnetpi/nachtzuster/Andringslogg.txt>