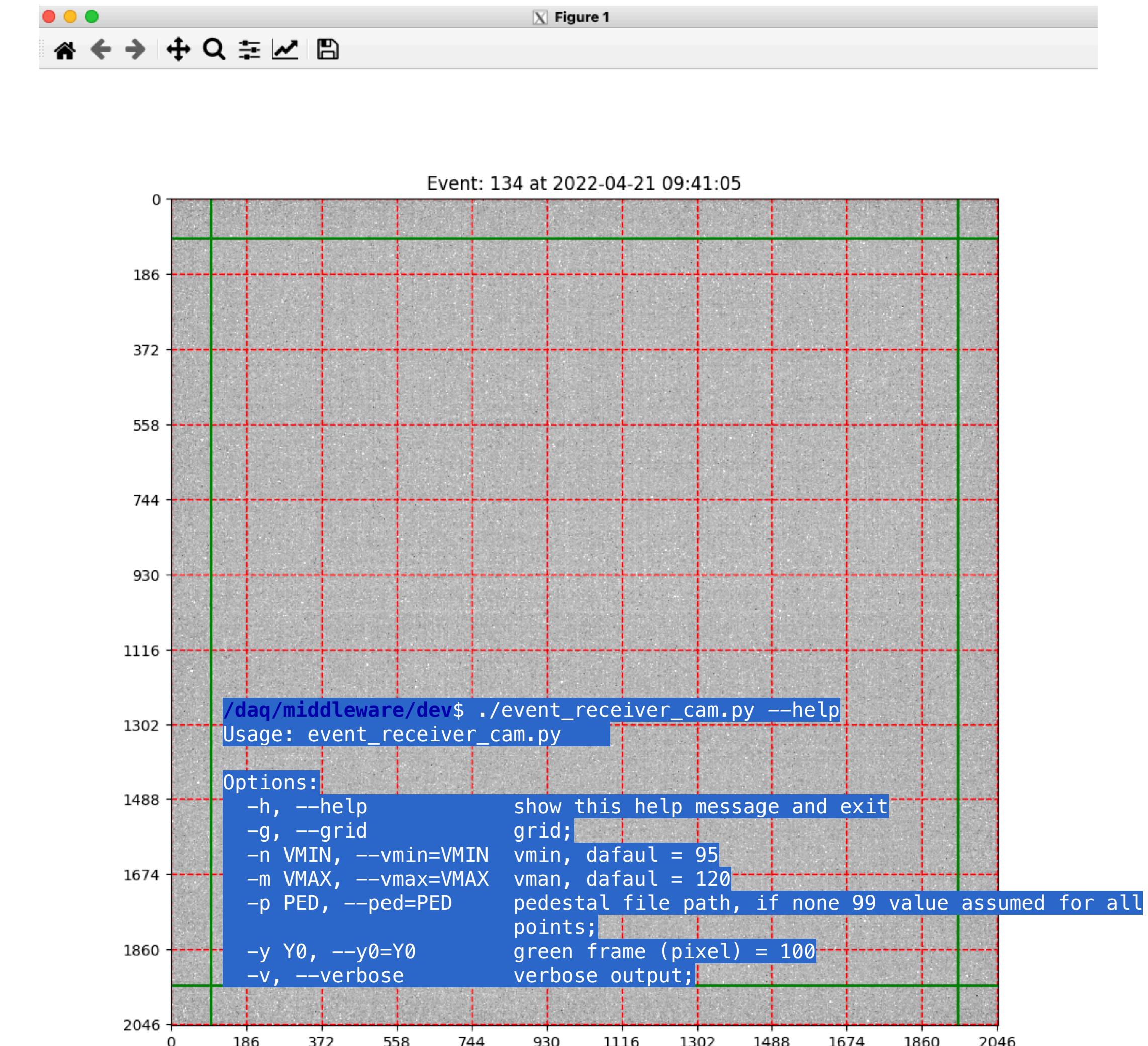


# **cygno lib/Middle Ware**

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# online display

- display data online
- ready to host online/lab analysis tool
- to do:
  - implement dynamics controls (th, zoom, etc)
  - extend to PMTs etc.
- vvee
- <https://github.com/CYGNUS-RD/middleware>



# from root 2 mid

- we have decided to store raw data from MIDAS DAQ
- POSIX vs ObjStorage S3 (data stream)
- first tool and example of how to handle data are available
- a simple tool to convert data (very preliminary) is available
- instruction and documentation <https://github.com/CYGNUS-RD/cygnos>

## CYGNUS CLI Tool *cygno\_mid2root*

convert MIDAS output file in CYGNUS root histograms data files. Required:

```
pip install 'https://github.com/CYGNUS-RD/middleware/blob/master/midas/midaslib.tar.gz?raw=true'
```

tool:

```
Usage: cygno_mid2root <RUN number>
Options:
-h, --help      show this help message and exit
-p PATH, --path=PATH path to file or cache directory
-v, --verbose   verbose output;
```

## CYGNUS library tool

```
standard@cygno-daq-labe:~/daq/middleware/dev$ cygno_mid2root 89
100.0% 199467008 / 199460499
Writing to ROOT file: /tmp/histograms_Run00089.root
transferring image 0
transferring image 10
transferring image 20
transferring image 30
```