

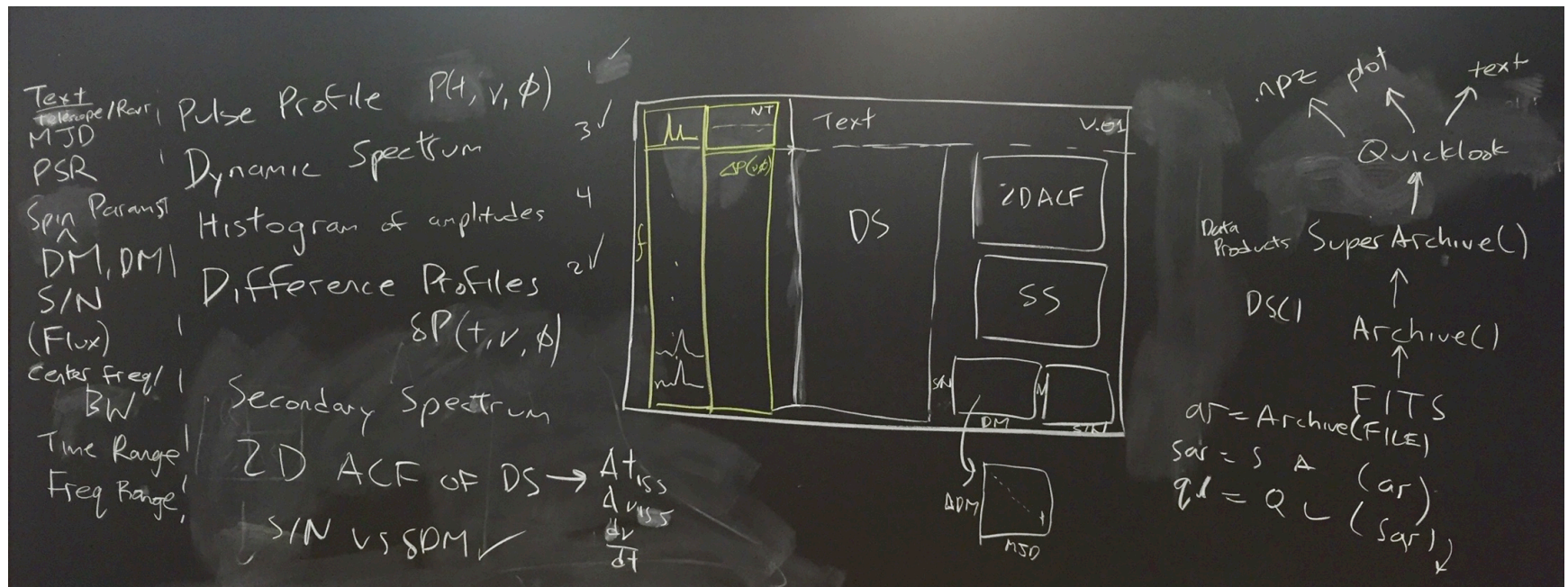
# QUICKLOOK

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(A Quick Look at Quicklook)

# Goals

- A simple tool to inspect pulsar observations.
- A single-screen summary of the data.



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- A single-screen summary of the data.
- Easy to install. (Have you installed `psrchive` lately?)
- Minimal dependencies.
- Stand-alone tool.
- ... but could be plugged into larger infrastructure.

# Current Status

- Code so far by Michael Lam, Douglas Riegel (Cornell undergrad) with input from Shami Chatterjee, Jim Cordes, et al.
- Quicklook is now in public beta:  
<https://github.com/mtlam/quicklook>
- Uses PyPulse for underlying infrastructure:  
<https://github.com/mtlam/PyPulse>
- Requires numpy, scipy, matplotlib, astropy.  
(Routine; available via Anaconda or Canopy or pip or ...)

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(Routine; available via Anaconda or Canopy or pip or ...)
- Does not require:  
Tempo, PRESTO, PSRCHIVE, FFTW, PGPLOT, etc., etc.

# Installation

- Download zip files for Quicklook and PyPulse.

Or:

```
git clone https://github.com/mtlam/PyPulse.git
```

```
git clone https://github.com/mtlam/Quicklook.git
```

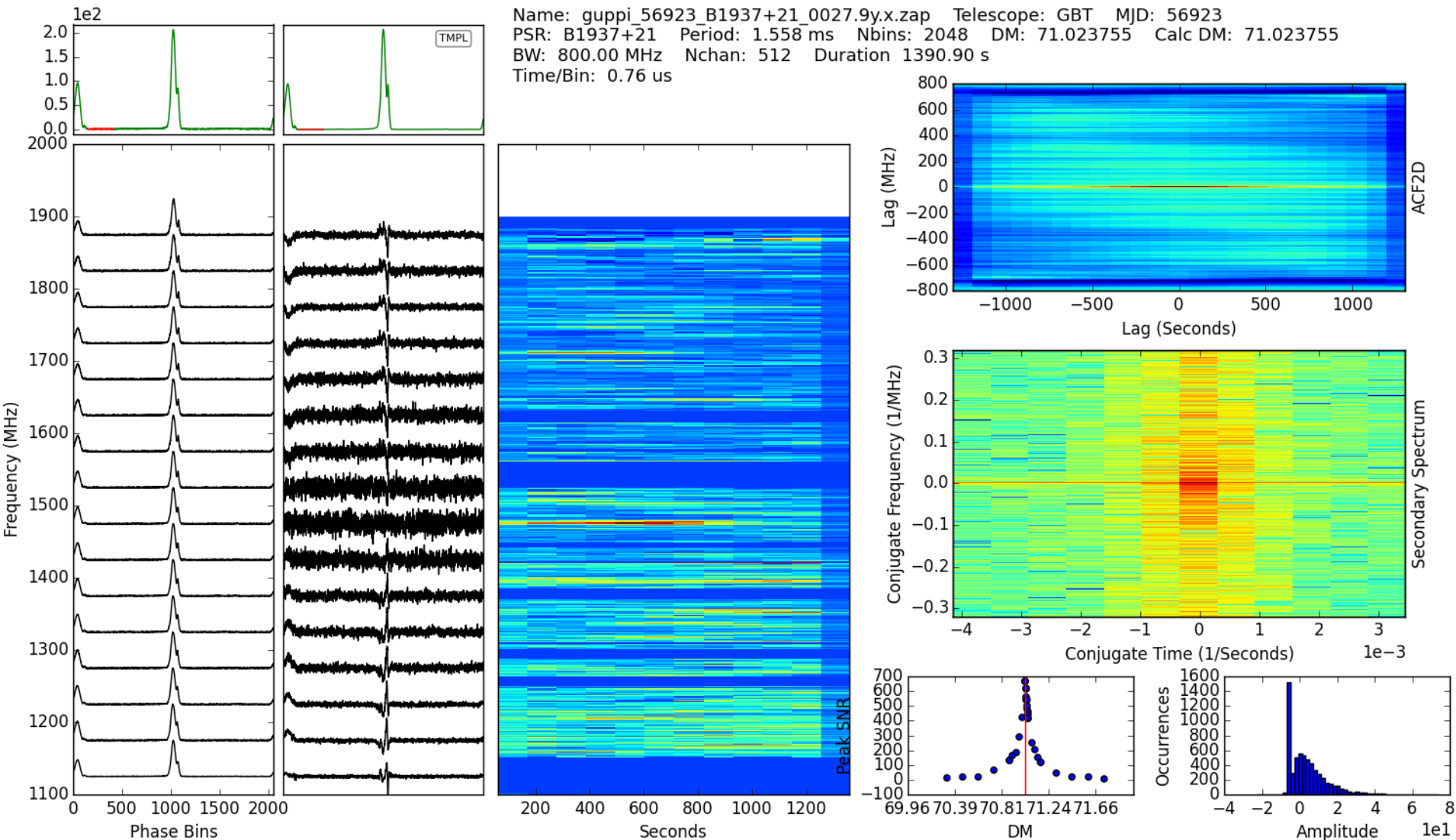
- `cp -r pypulse ../Quicklook/`  
(Avoids having to fiddle with \$PYTHONPATH)

- `cd Quicklook`  
`./quicklook.py`

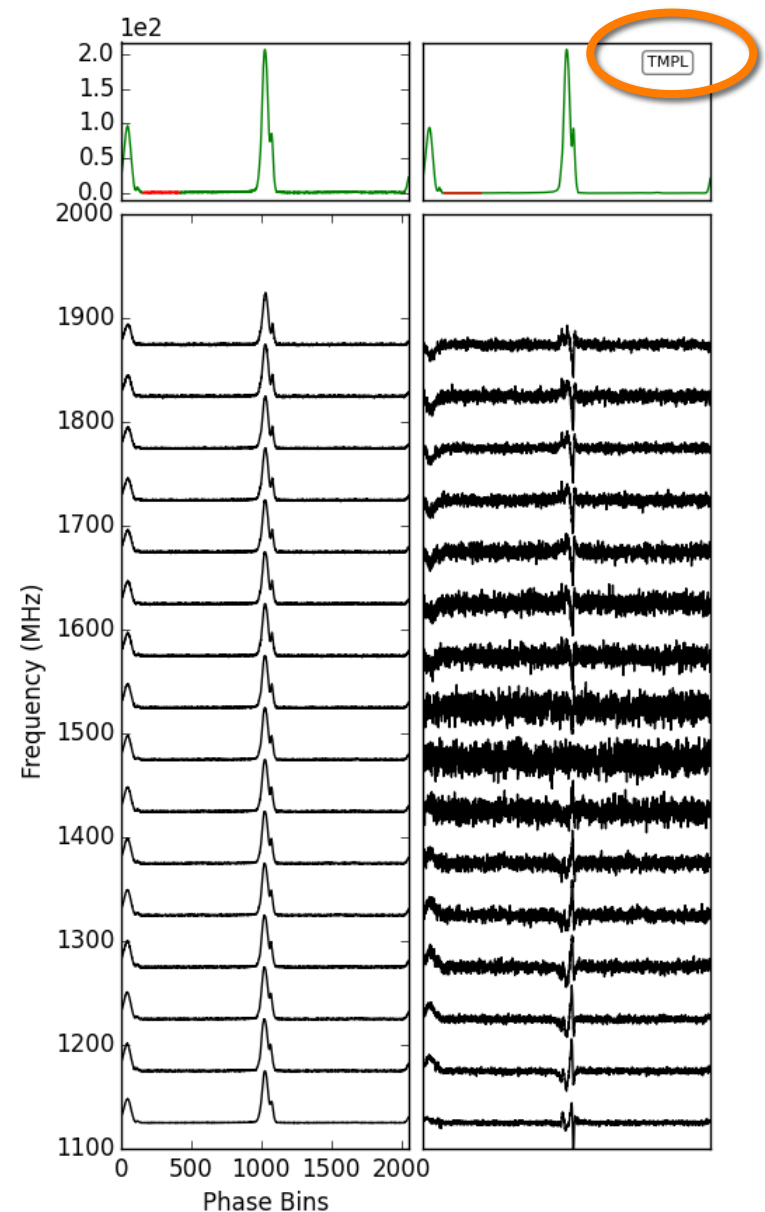
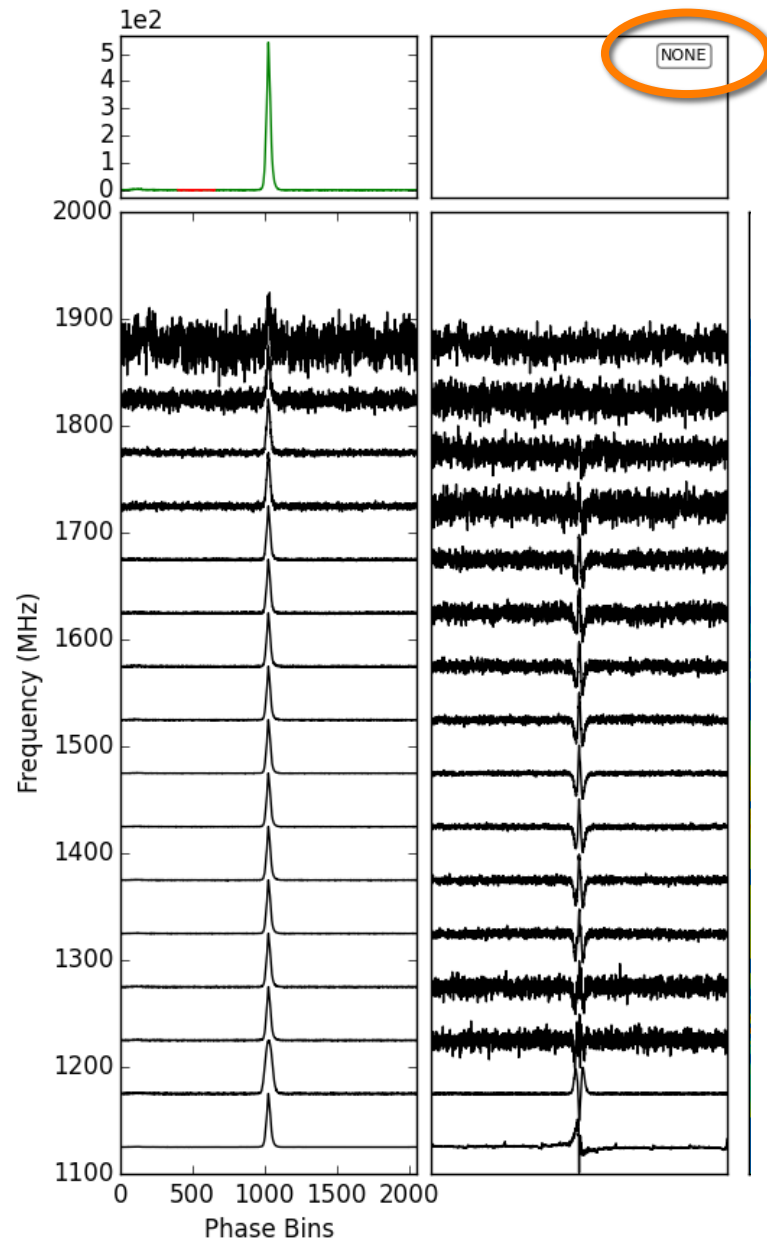
This should produce a usage message – if so, you're set.

# Usage

```
./quicklook.py /path/to/data/guppi_B1937+21.zap [options]
```

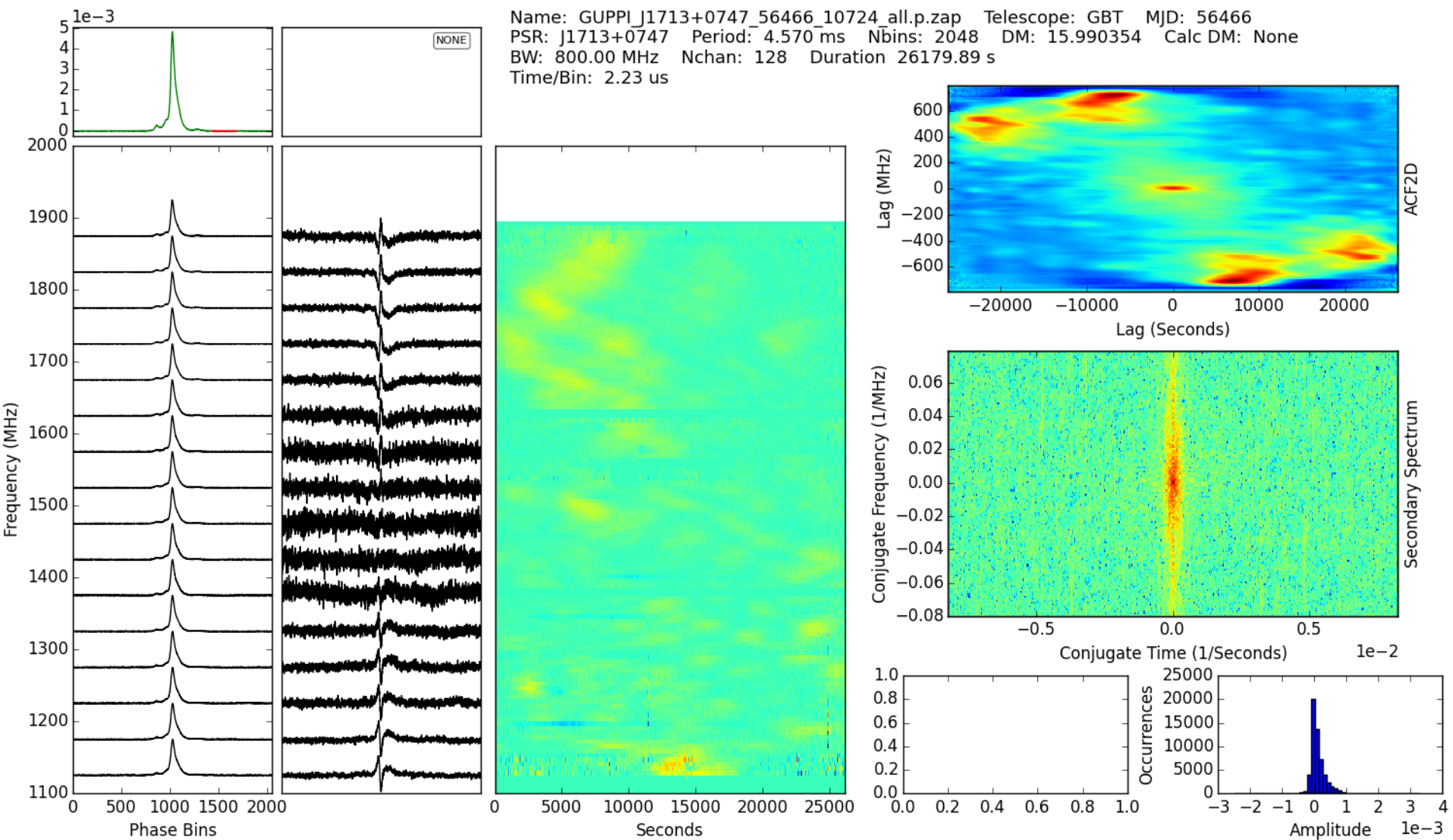


# Pulse Profile and Profile Evolution

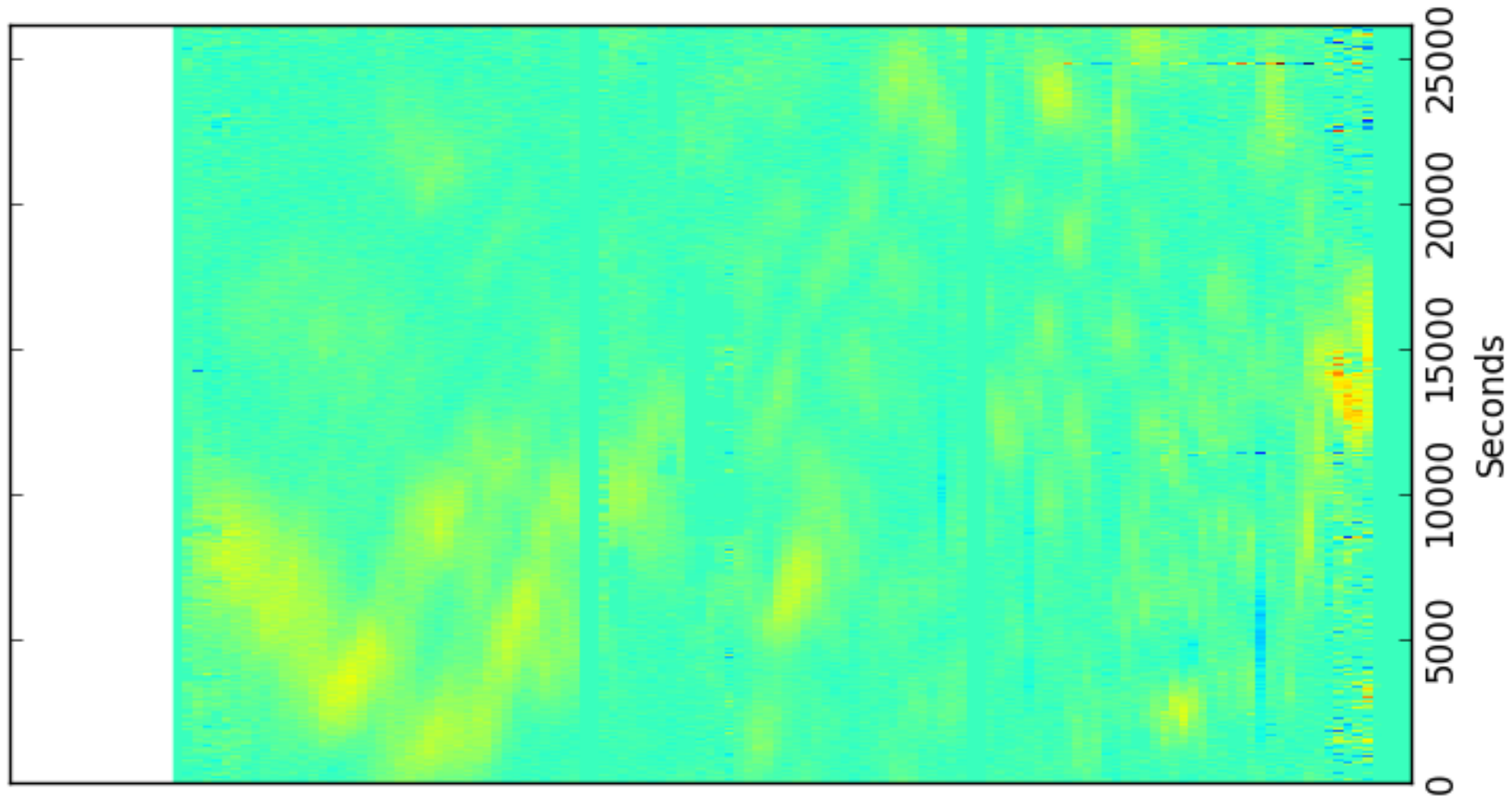




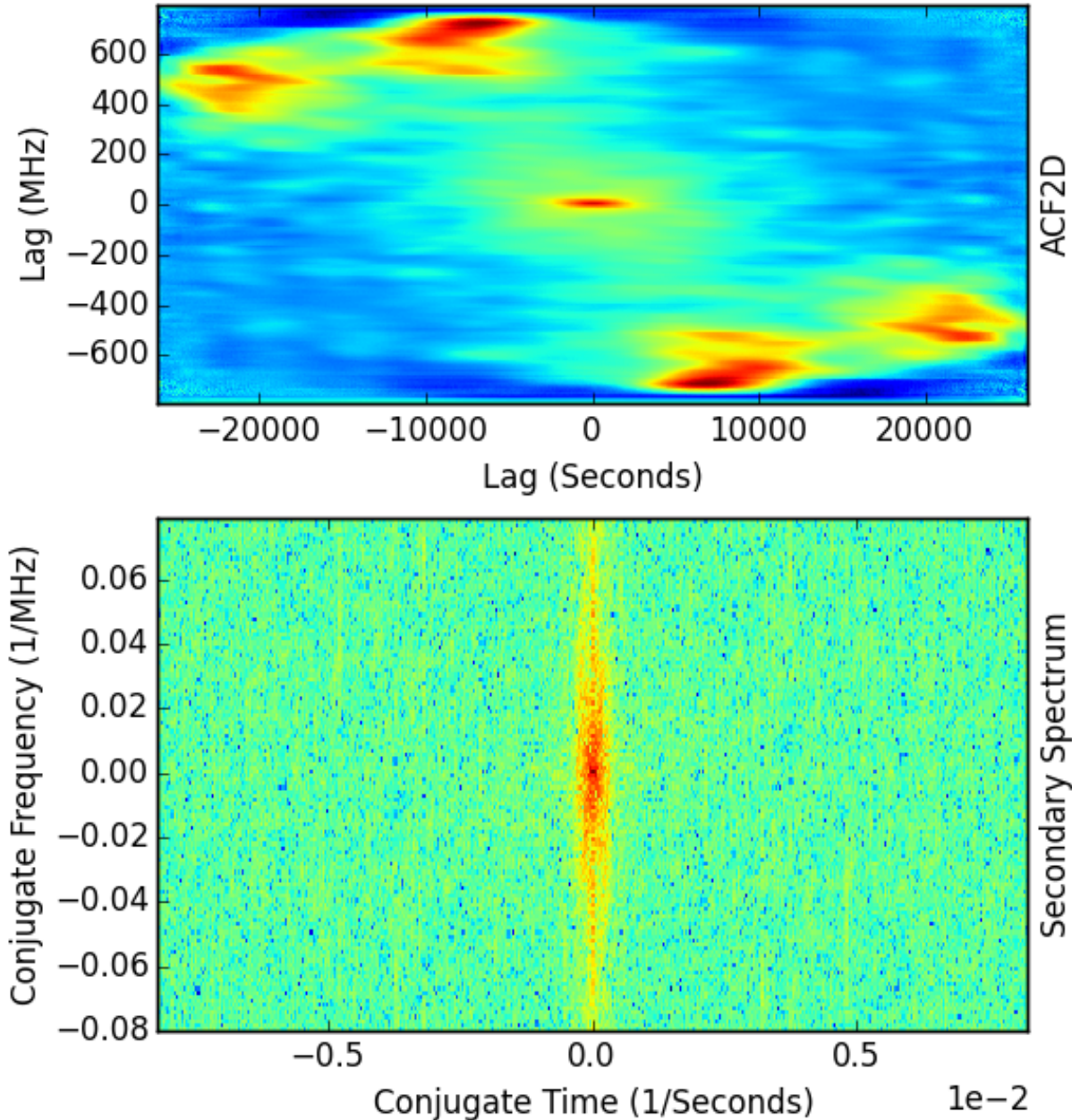
# Dynamic Spectrum



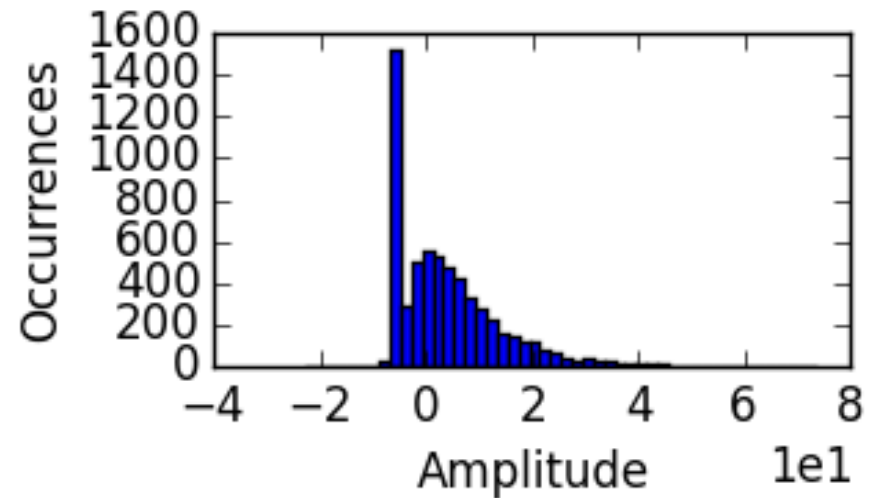
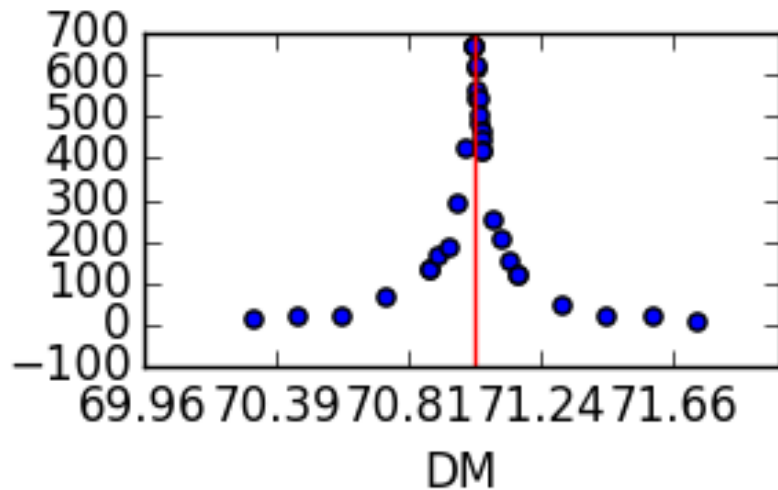
# Dynamic Spectrum



# ACF and Secondary Spectrum



# Other Information



(Layout and information in each panel can be reconfigured to suit different needs.)

# Summary

- Quicklook is now in public beta:

<https://github.com/mtlam/quicklook>

<https://github.com/mtlam/PyPulse>

- It works!
- Already quite useful for data inspection.
- We are open to ideas and suggestions for enhancements.
- We especially welcome contributions of coding effort.