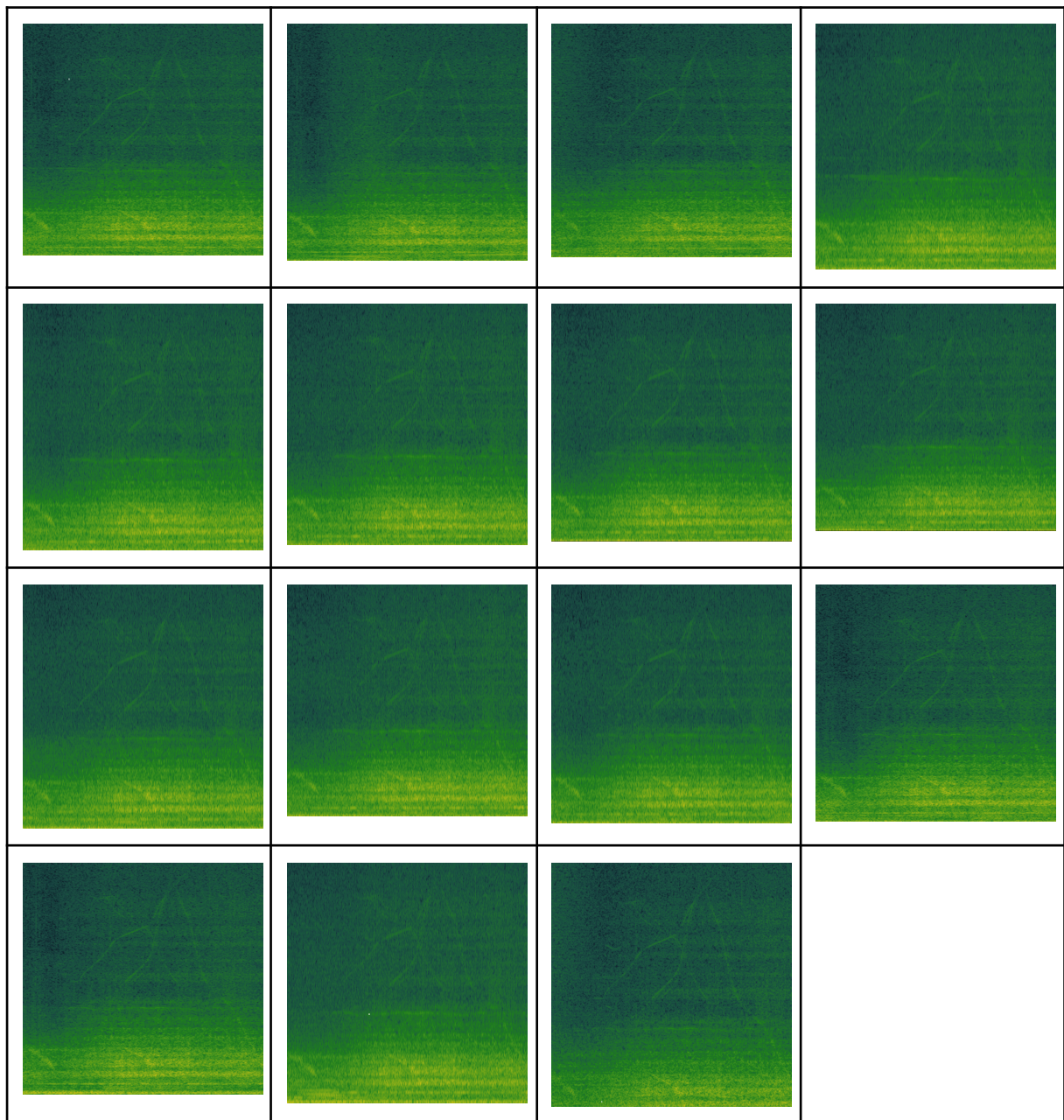


One of the things I have been thinking about is the possible ability for us to combine many multiple captures of the signal - either in raw audio form, or spectrogram visualisations, and clear up noise from the signal and strengthen the underlying image(s).

This would be in the same way that pro and amateur astronomers will take hundreds or thousands of exposures of a patch of sky over many hours and "stack" them using Photoshop or free tools such **DeepSkyStacker**<sup>1</sup> to make a unified, much clearer astronomical image. For example see this bonkers [moon shot](#)

Or perhaps we could add and align multiple audio tracks in audacity, and re-output to a new .flac file and then analyse the spectrogram of that.

In the following examples of my spectrograms taken from different systems you can start to see random noise from signal. Stacking multiple may be useful. PS, these images are produced by the other tool I have been using **Sonic Visualiser**<sup>2</sup>



<sup>1</sup> "DeepSkyStacker - Free." <http://deepskystacker.free.fr/>. Accessed 8 Dec. 2020.

<sup>2</sup> "Sonic Visualiser." <https://www.sonicvisualiser.org/>. Accessed 10 Dec. 2020.

This rough and ready collection of screen grabs of some of many spectrograms of audio taken so far - I'm going to experiment with stacking these in DeepSkyStacker and others to try to bring out detail - forward this idea on to any seasoned astronomers (and/or audiophile gurus) out there with top notch stacking skills and expensive software they will probably be far more successful than I might be!!