

Supplementary material
for the paper
Removing noise from astronomical images
using a pixel-specific noise model
(Paper ID: 40)

The images of the Orion nebula that were provided in the paper showed a small region of larger images. This document presents the full-sized images. Larger versions of the images of the Milky Way are also included. We also included the result obtained by denoising the Milky Way using DF-MAP₂ (which was not shown in the paper).

To limit the size of this document, the images were compressed to the JPEG format. We used the Linux tool `convert` with a quality setting of 80. Unfortunately, this compression introduces artifacts.

We also compressed the images to the png (Portable Network Graphics) format, which is a bitmapped image format that employs lossless data compression (i.e no artifacts are introduced). The interested reader is invited to access the png images on the web at <http://anonymousiccp.bplaced.net/>. We must warn the reader that, in spite of lossless compression, the file sizes remain quite large (greater than 10 megabytes).

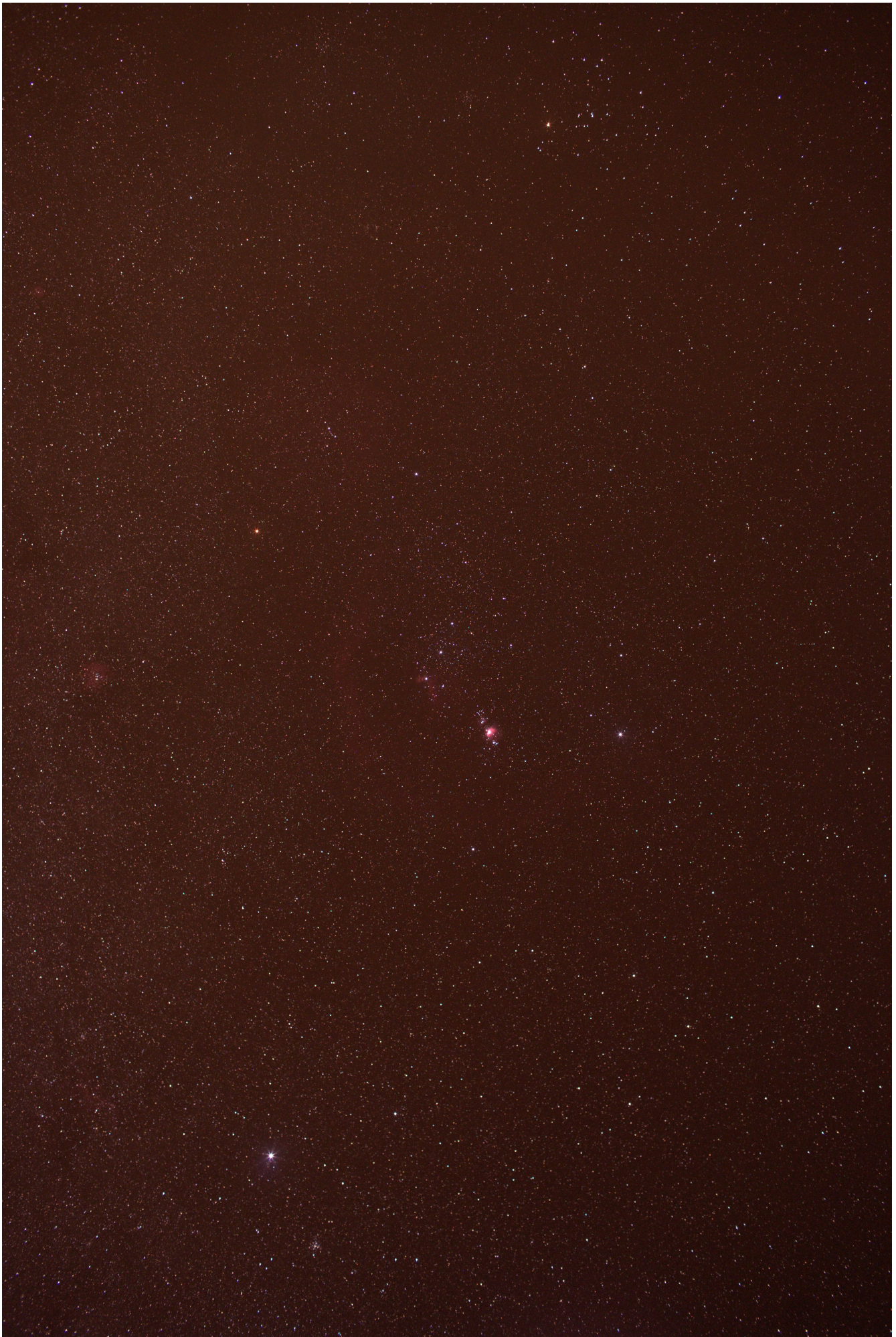


Figure 1: Orion nebula. Recorded noisy image. Lossless version available at <http://anonymousiccp.bplaced.net/>



Figure 2: Orion nebula. Denoised with DF-ML. Lossless version available at <http://anonymousiccp.bplaced.net/>

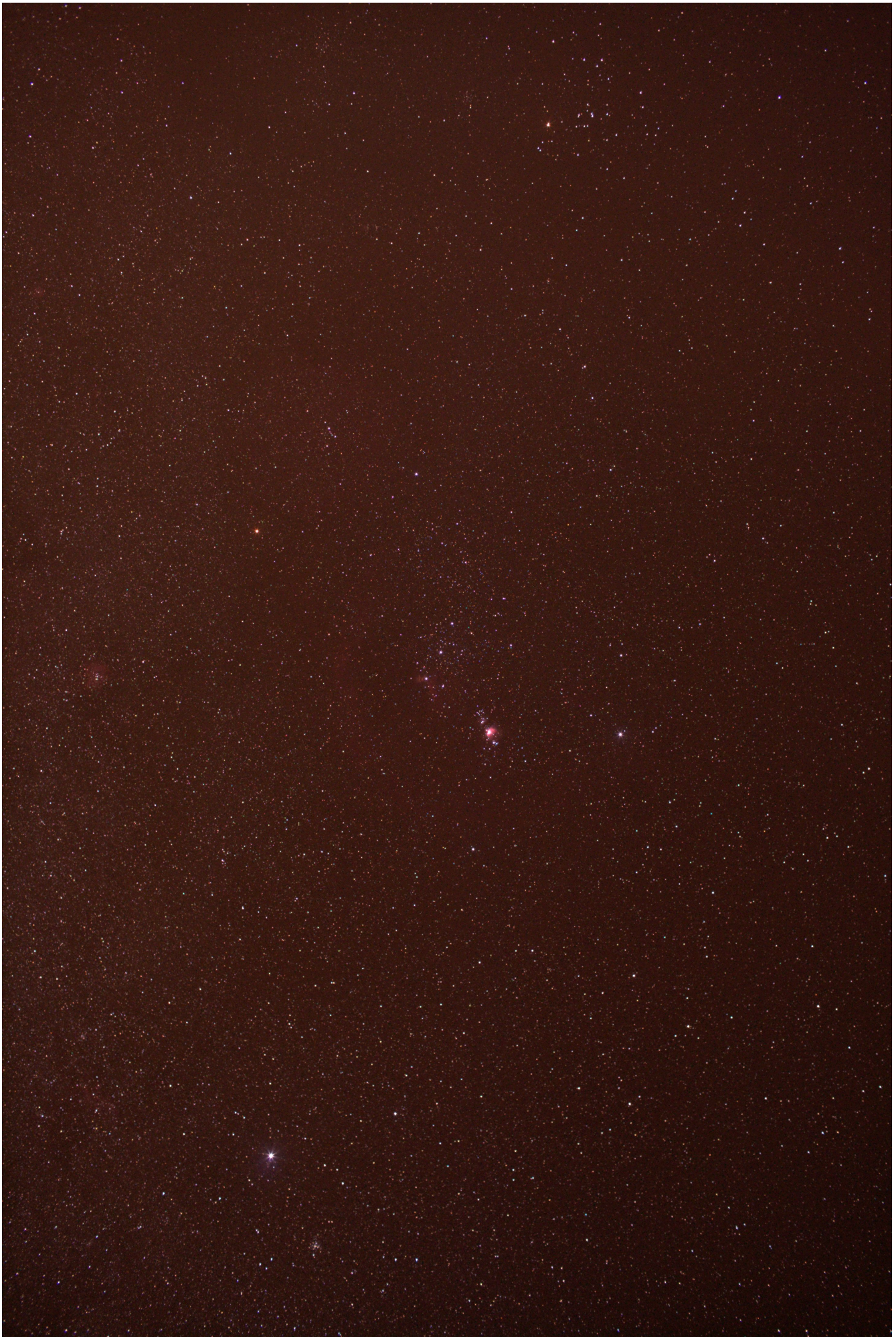


Figure 3: Orion nebula. Denoised with DF-MAP₂. Lossless version available at <http://anonymousiccp.bplaced.net/>



Figure 4: Orion nebula. Denoised with QP. Lossless version available at <http://anonymousiccp.bplaced.net/>

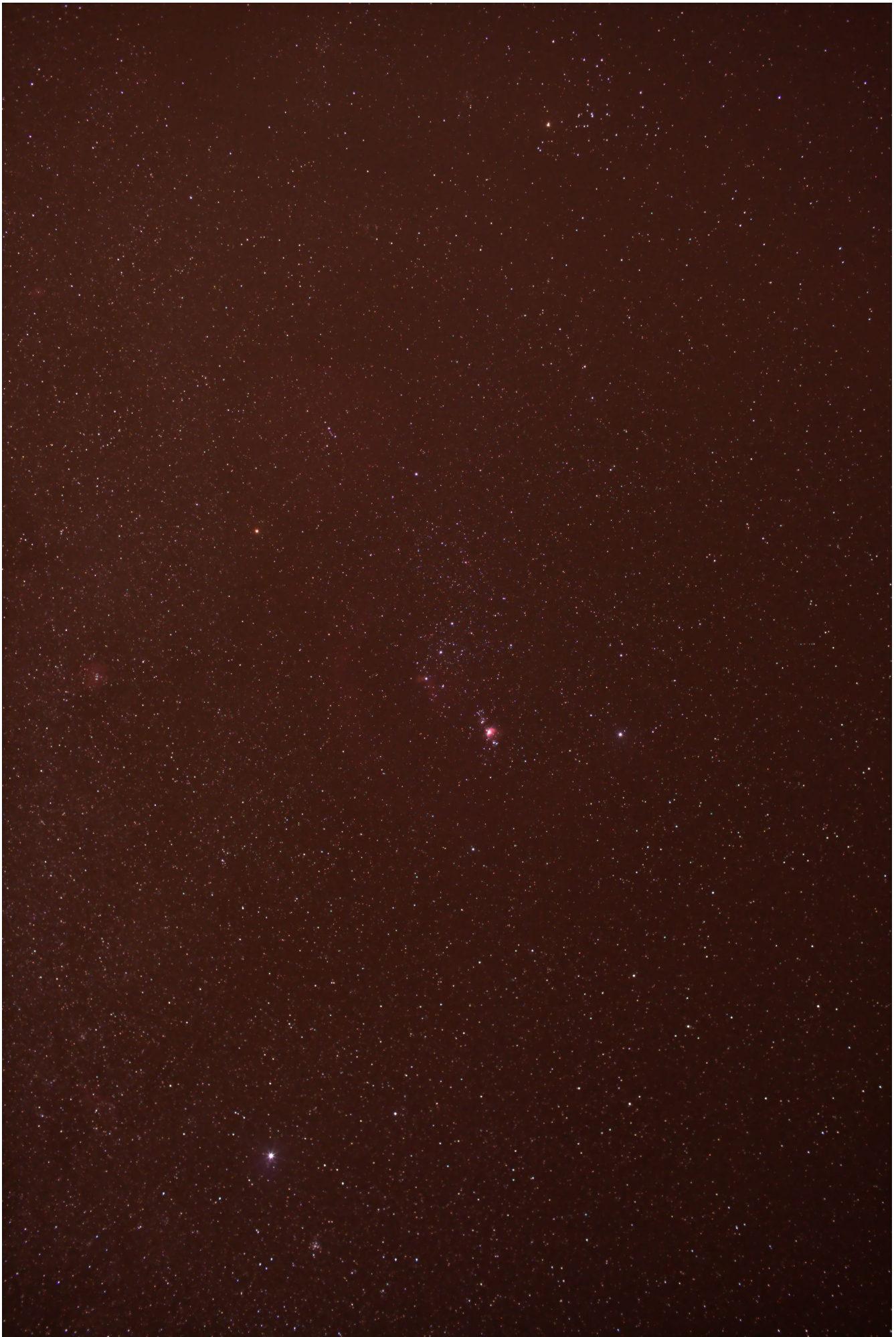


Figure 5: Orion nebula. Denoised with DF-MAP_{1.4}. Lossless version available at <http://anonymousiccp.bplaced.net/>

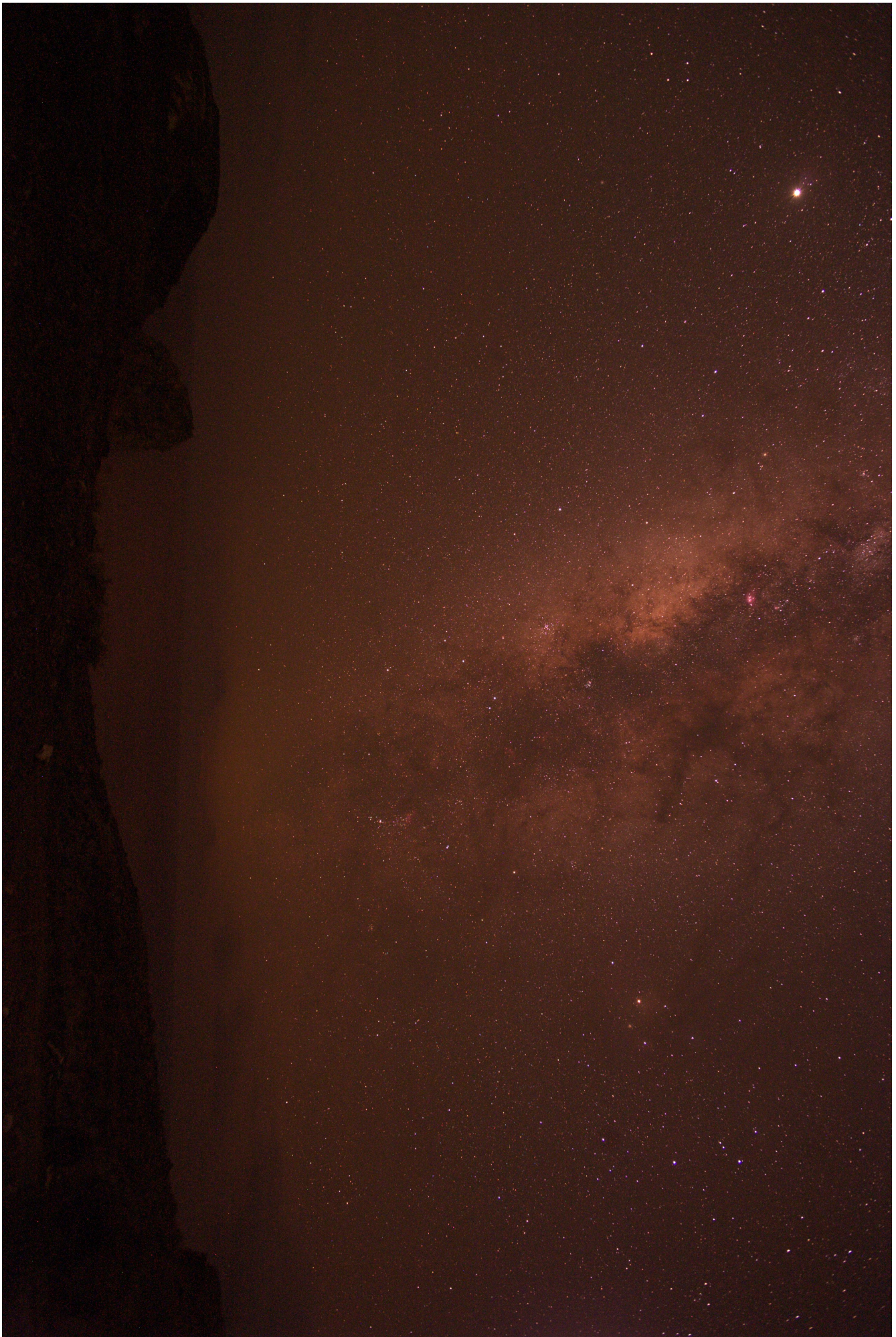


Figure 6: Milky Way. Recorded noisy image. Lossless version available at <http://anonymousiccp.bplaced.net/>

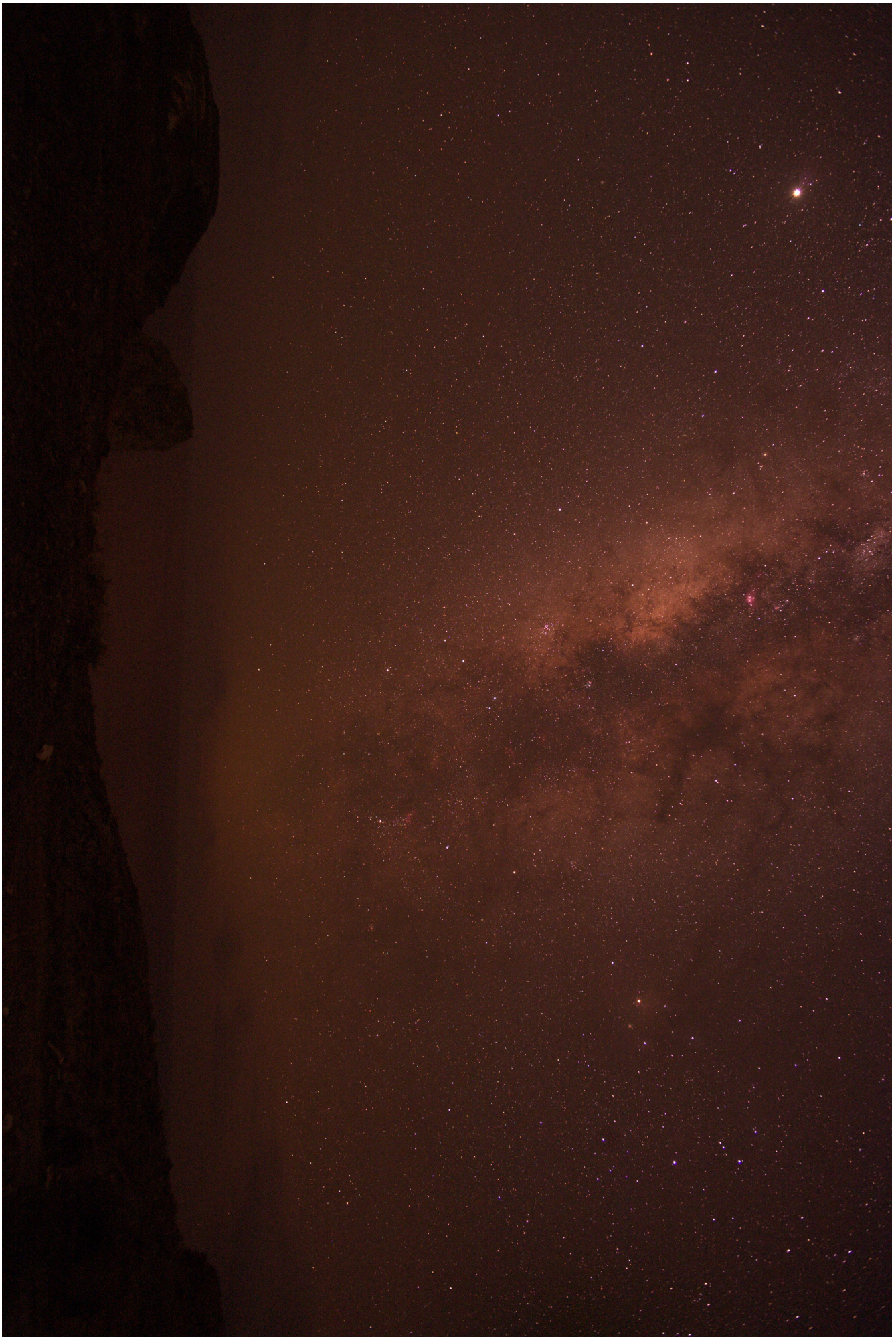


Figure 7: Milky Way. Denoised with DF-ML. Lossless version available at <http://anonymousiccp.bplaced.net/>

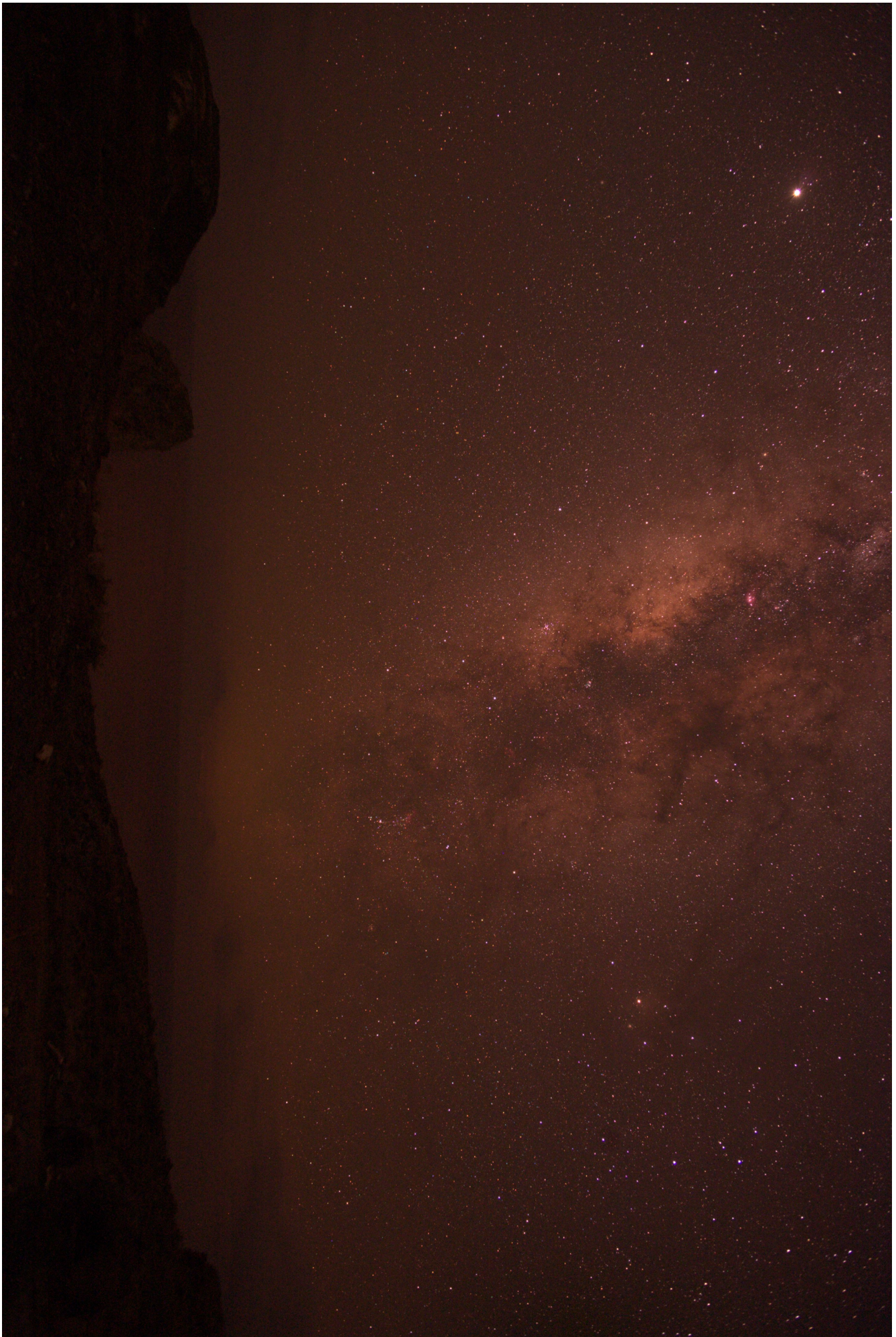


Figure 8: Milky Way. Denoised with DF-MAP₂. Lossless version available at <http://anonymousiccp.bplaced.net/>

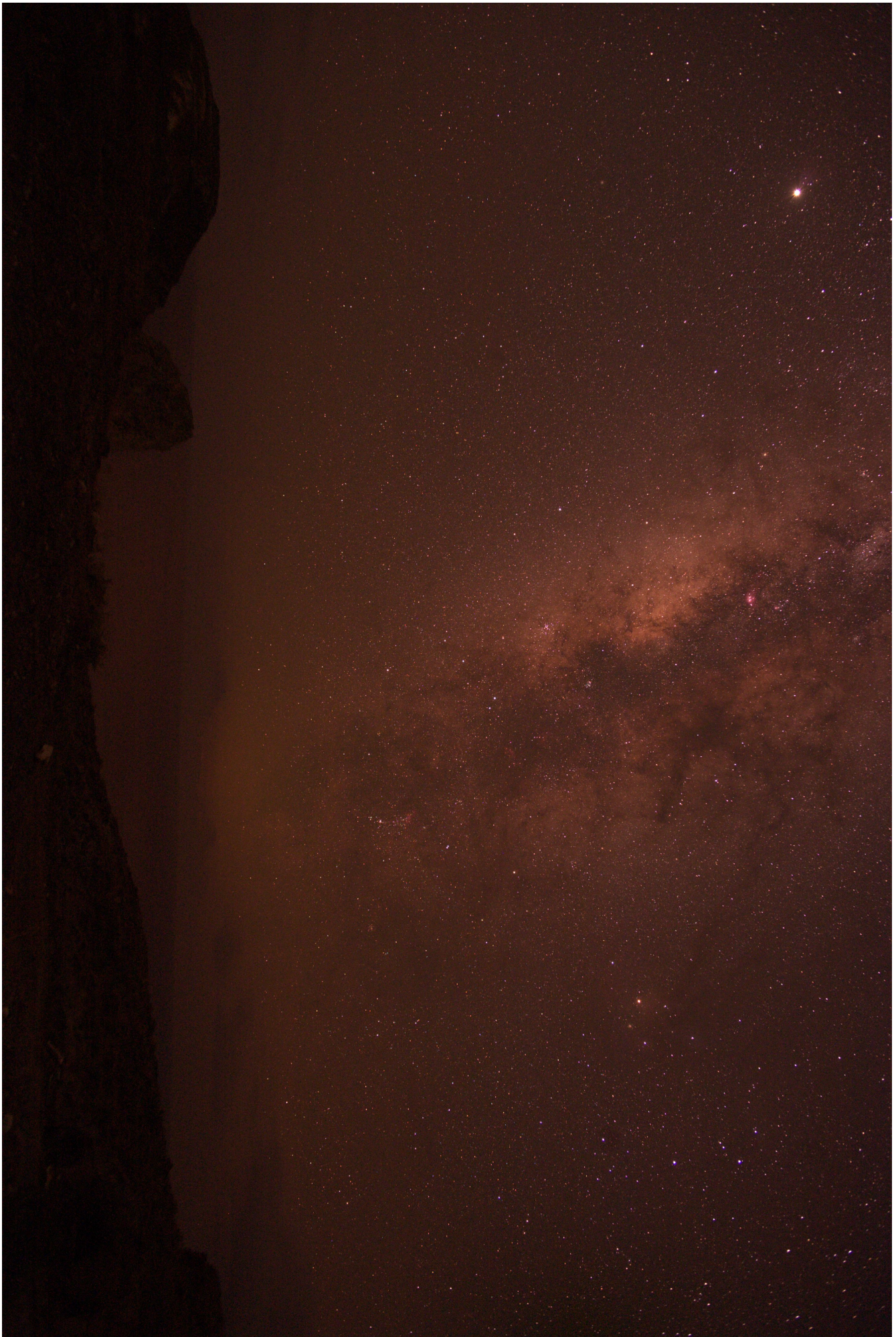


Figure 9: Milky Way. Denoised with QP. Lossless version available at <http://anonymoussiccp.bplaced.net/>

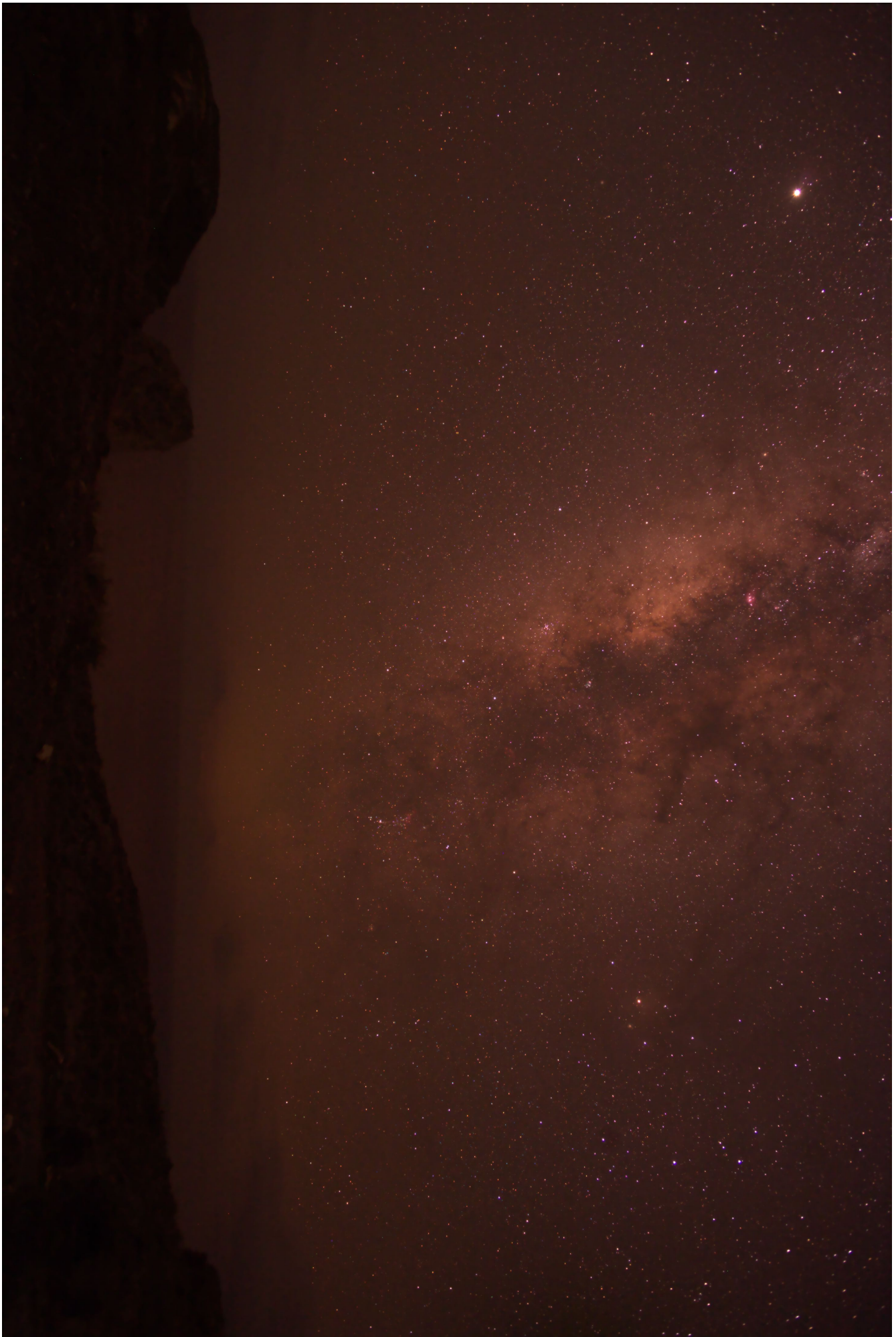


Figure 10: Milky Way. Denoised with DF-MAP_{1.4}. Lossless version available at <http://anonymousiccp.bplaced.net/>