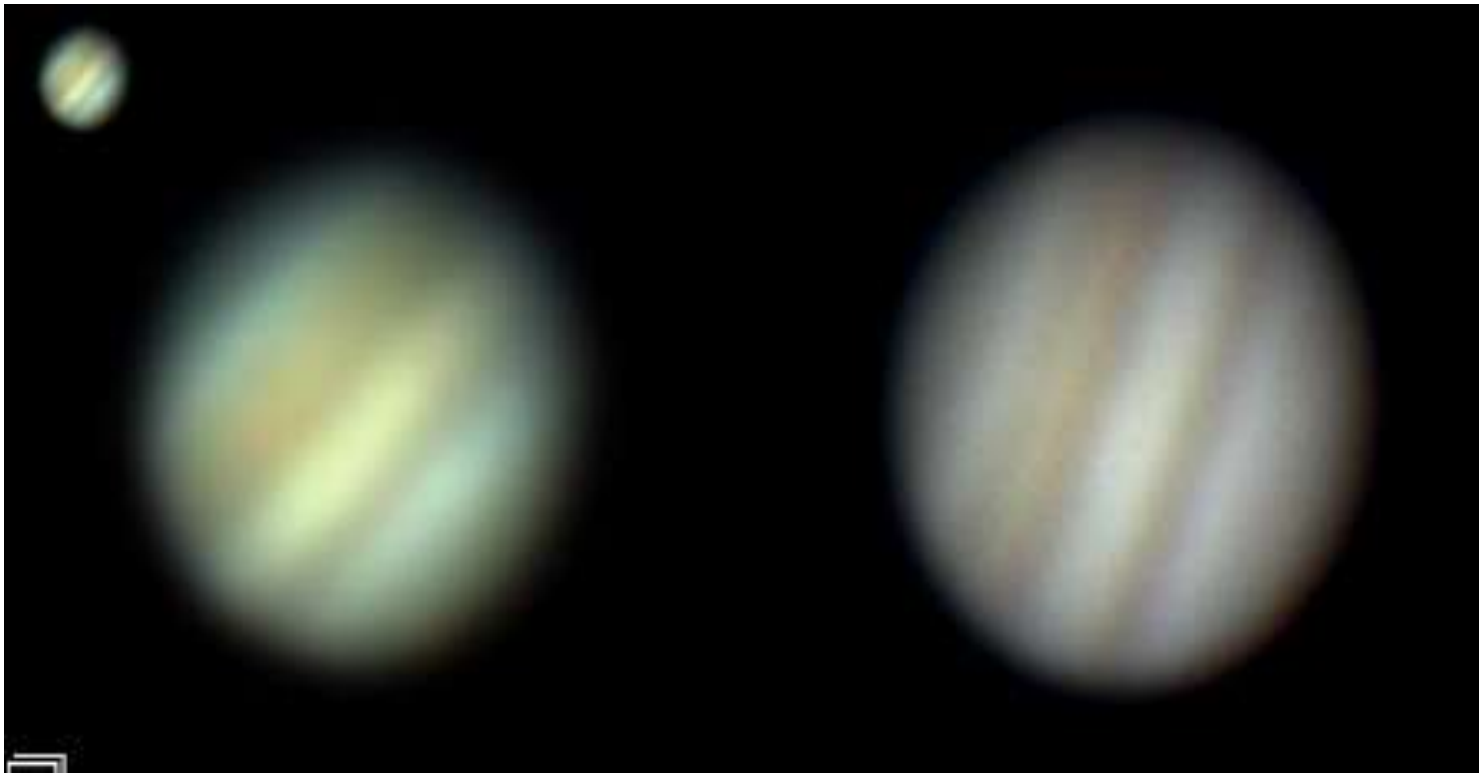
# **The planets**, tough objects to do well

- Planets are small and require high magnification to show detail
- The high magnification accentuates the turbulence (twinkling/flickering)
- Prolonged exposure is not the way forward

- One trick is to take lots of short exposure images, minimizing the fuzziness due to twinkling, and add them. VIDEOS!

Exposure time is not an issue – most planets are bright.
But high magnification means blurring from atmospheric turbulence even with a short exposure.
Below – the best you'll get with a standard single exposure, maybe 1/5s




Remove the plastic webcam lens (often a 'C thread') and buy/make adaptor, or tape to telescope eyepiece hole)

Link to videos

Plenty of freeware to sort and stack video images. The best is;

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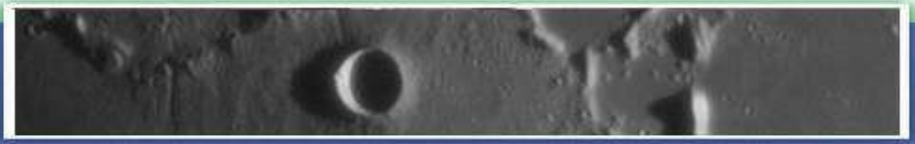
RegiStax 6

Free image processing software



REGISTAX 6 RELEASED

Email : registax @gmail.com

RegiStax Articles

Cor Berrevoets:
-Trapping noise
-Dealing with AVI-files

Bob Pilz:
-Lunar AVI's

Eric Roel:
-Solar Prominences

Sylvain Weiller:
-Solar H-Alpha zones

Ken Hough:
-RegiStax under Linux

Downloads

MAY 6

## RegiStax 6 update available

The 1st update of RegiStax 6 is available for download from the downloadpage. This update only replaces the executable file of RegiStax and needs to be installed in the same directory where RegiStax 6 has been installed, you should NOT uninstall.

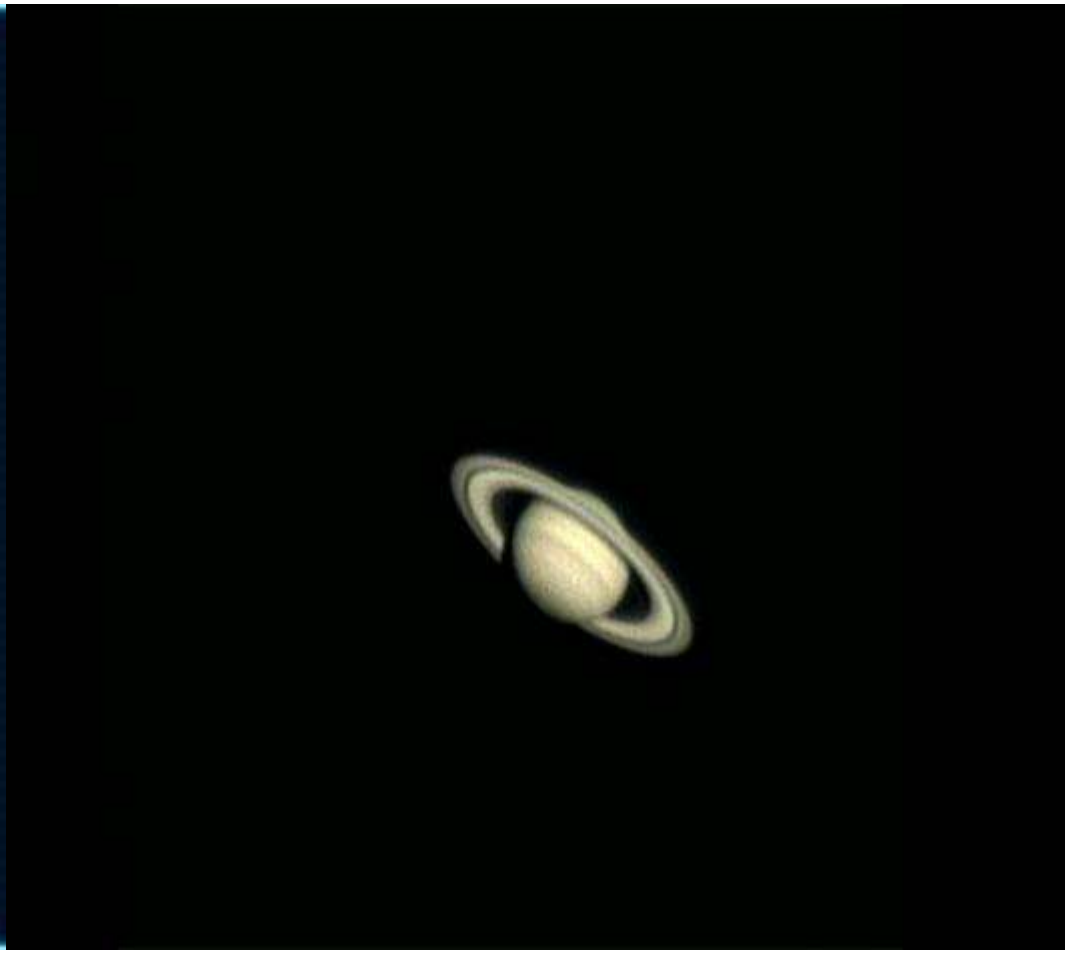
**Download Release 6.1.0.8 (1.6 Mb)**

Find below the most important changes of this update,
if you have issues that are not solved with this update please report them.

*General improvements:*
-large AVI's (that needed the extended mode from RegiStax 5) now also use multicore to read frames.
-when using larger wavelet-filters (problem also existed in R5) spurious edges could appear on the image (horizontal striping), this is now solved.
- when saving a wavelet-scheme the new "linked wavelet-setting" is also saved.

*Solves the following issues reported:*

Jupiter and two of its moons



saturn

Some of mine
Better than you'd see visually in a good telescope

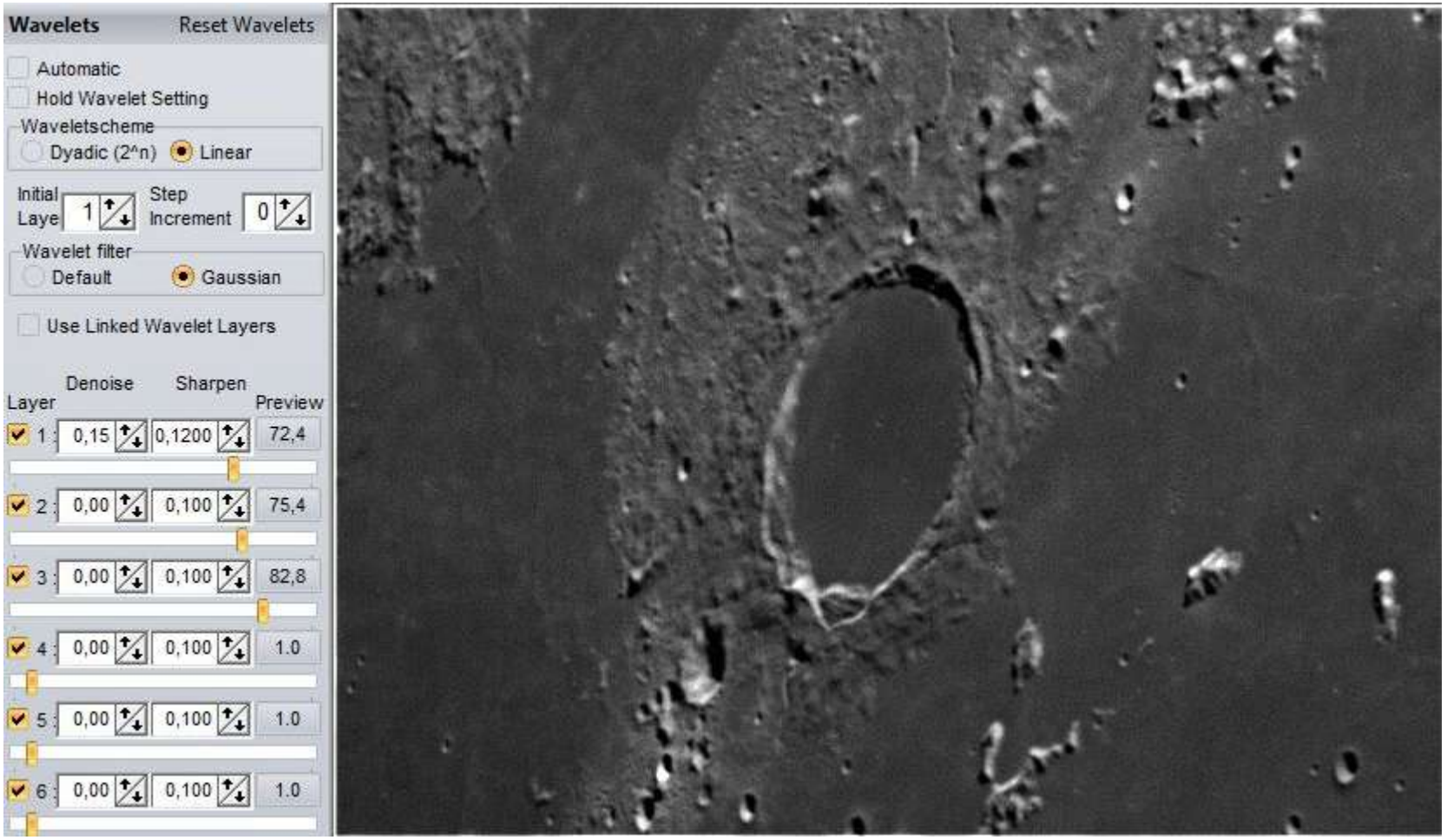
Saturn about to go behind the moon (over-exposed)

A sunspot

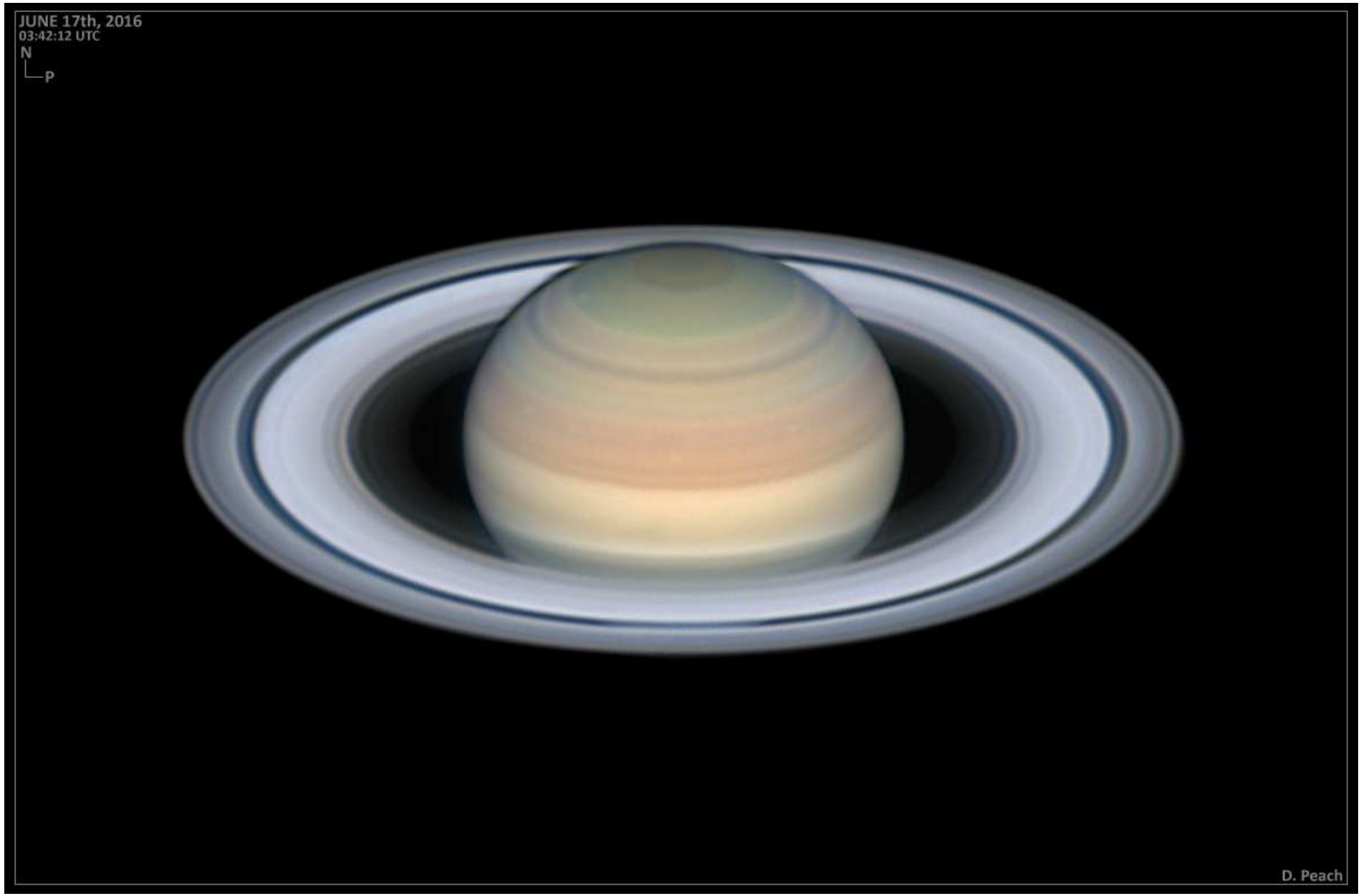
More of mine

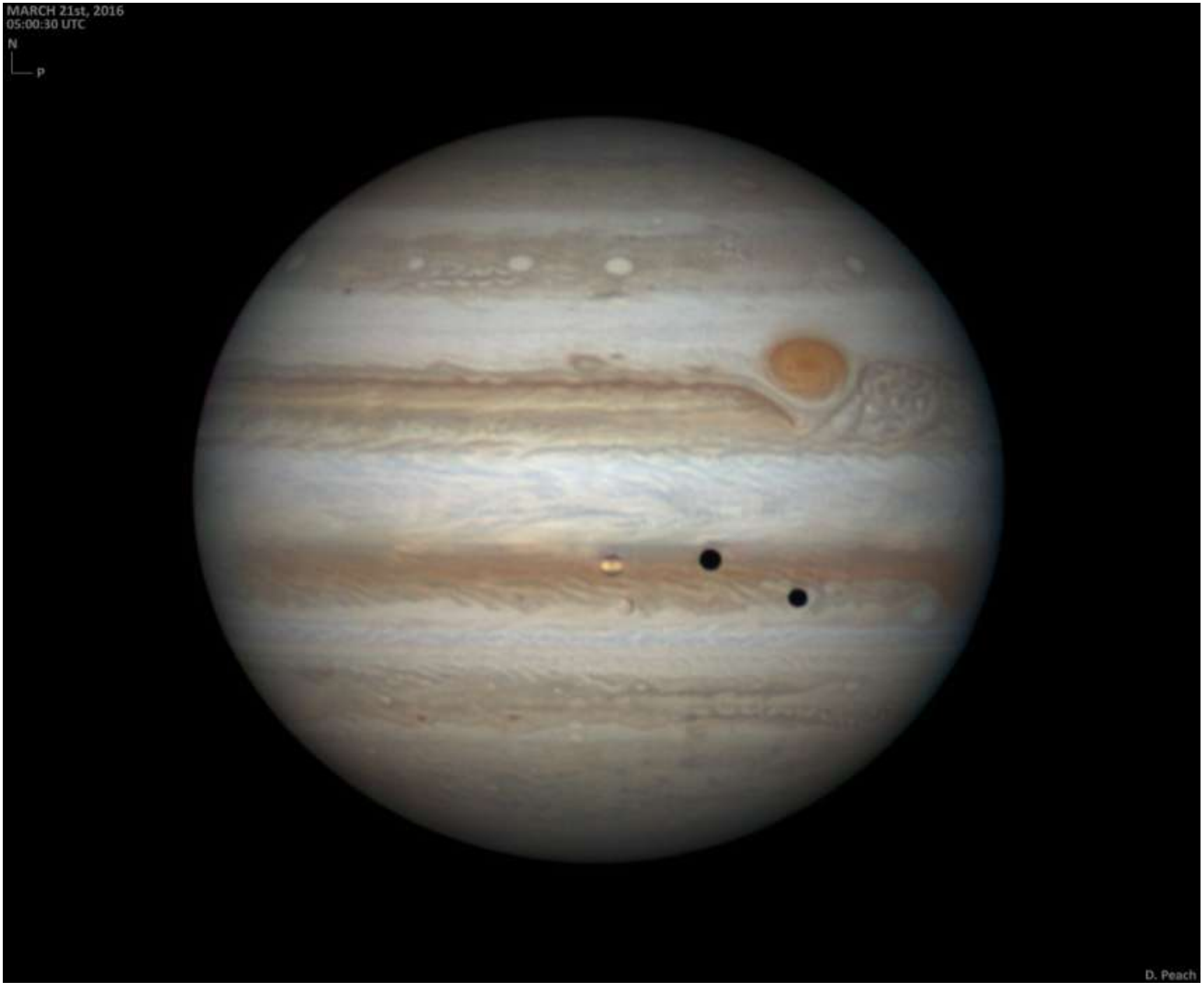
High Mag view of a lunar crater. Before.....

After stacking 50 images.....(some sharpening too)



For a masterclass in this technique check out the UK amateur Damian Peach;
http://www.damianpeach.com/

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D. Peach

A true amateur master....

He started with the simpler webcam kit, but now uses higher end video camera – but new DSLRs often have video options!