

Outline for new section on observations.

Us

November 4, 2012

Part I

Theory and Methods

Part II

Observations

6 Results from Observations

6.1 The Observational Material

6.1.1 What was observed

Phases and Azimuth <http://iloapp.thejll.com/blog/earthshine?Home&post=259>,
Filters. Observational coverage as shown in <http://iloapp.thejll.com/blog/earthshine?Home&post=261>

6.1.2 Concerns

about Filter identity -its resolution in principle, Shutter performance <http://iloapp.thejll.com/blog/earthshine?Home&post=47>, <http://iloapp.thejll.com/blog/earthshine?Home&post=18> <http://iloapp.thejll.com/blog/earthshine?Home&post=113>
CCD linearity <http://iloapp.thejll.com/blog/earthshine?Home&post=5>. How these factors play together to confound the issue! Focus: <http://iloapp.thejll.com/blog/earthshine?Home&post=207>

How it will be solved.

6.1.3 Extinction

- corrections, or lack thereof. Determining nightly extinction coefficients. Relationship between α and extinction <http://iloapp.thejll.com/blog/earthshine?Home&post=257> <http://iloapp.thejll.com/blog/earthshine?Home&post=188>
Halo size and α <http://iloapp.thejll.com/blog/earthshine?Home&post=179>

6.1.4 Calibrating on standard stars

- finding and presenting the instrumental magnitudes <http://iloapp.thejll.com/blog/earthshine?Home&post=112>

6.1.5 PSF

All entries <http://iloapp.thejll.com/blog/earthshine?Home&category=6>.

Determining the halo <http://iloapp.thejll.com/blog/earthshine?Home&post=135>
Halo from laser <http://iloapp.thejll.com/blog/earthshine?Home&post=119>
Knife-edge from house <http://iloapp.thejll.com/blog/earthshine?Home&post=115>

6.1.6 Removing scattered light

Comparing methods <http://iloapp.thejll.com/blog/earthshine?Home&post=252>

Looking at the BBSO method <http://iloapp.thejll.com/blog/earthshine?Home&post=246>

Good BBSO method plot: <http://iloapp.thejll.com/blog/earthshine?Home&post=243>.

Looking at the EFM method <http://iloapp.thejll.com/blog/earthshine?Home&post=245>. <http://iloapp.thejll.com/blog/earthshine?Home&post=248>.

Accuracy on determinations of α <http://iloapp.thejll.com/blog/earthshine?Home&post=148>.

6.2 The Reduction to fluxes

6.2.1 Filter IDs

Identification of filters in practise.

The "Tunneling" method. <http://iloapp.thejll.com/blog/earthshine?Home&post=233>

6.2.2 Bias - its variations, and how to remove

Bias variations: <http://iloapp.thejll.com/blog/earthshine?Home&post=36>
<http://iloapp.thejll.com/blog/earthshine?Home&post=126>

6.2.3 Flat fields

<http://iloapp.thejll.com/blog/earthshine?Home&post=78>

<http://iloapp.thejll.com/blog/earthshine?Home&post=69>

Bias and FF category entries: <http://earthshine.thejll.com/#category12>

6.2.4 Extraction

How patches of a given placement and size are used.

Finding disk centre <http://iloapp.thejll.com/blog/earthshine?Home&post=237> <http://iloapp.thejll.com/blog/earthshine?Home&post=236> <http://iloapp.thejll.com/blog/earthshine?Home&post=165>

Differential refraction and ability to find centre <http://iloapp.thejll.com/blog/earthshine?Home&post=242>

Driving on the Moon <http://iloapp.thejll.com/blog/earthshine?Home&post=241>

6.2.5 Presenting fluxes and DS/BS ratios

Figures and Tables.

6.3 From Fluxes to Albedo

Ratio of ratios explained. Explained how this is what BBSO do.

JPL abs mag data <http://iloapp.thejll.com/blog/earthshine?Home&post=256>

Chris' SVD method <http://iloapp.thejll.com/blog/earthshine?Home&post=100>

Effect of reflectance model on derived albedo <http://iloapp.thejll.com/blog/earthshine?Home&post=255>

Fluxes from three reflectance models <http://iloapp.thejll.com/blog/earthshine?Home&post=184>

Choice of lunar albedo maps <http://iloapp.thejll.com/blog/earthshine?Home&post=253>.

Error on albedo <http://iloapp.thejll.com/blog/earthshine?Home&post=170>

Ratio-of-ratio stuff: <http://iloapp.thejll.com/blog/earthshine?Home&post=258>

6.3.1 What are the expectation?

Why the 'daily progression'? Can we see continents rotating into view? Any signal in the VE1/VE2 difference?

Sunglint map <http://iloapp.thejll.com/blog/earthshine?Home&post=66>.
Simulated Earths <http://iloapp.thejll.com/blog/earthshine?ShowFile&image=1348744943.jpg>

Look at scenario data for short and long periods - can we see a seasonal cycle? <http://iloapp.thejll.com/blog/earthshine?Home&post=168>

Looking at a changing albedo <http://iloapp.thejll.com/blog/earthshine?Home&post=169>

Expectations based on models of Earth <http://iloapp.thejll.com/blog/earthshine?Home&post=110>

Can it be done <http://iloapp.thejll.com/blog/earthshine?Home&post=163>

East-West branch differences: <http://iloapp.thejll.com/blog/earthshine?Home&post=254>