

DENVER MUSEUM OF NATURE AND SCIENCE
VENUS WINDS PROJECT
MINUTES OF MEETING

Date/Time/Location: 2 August 2016 6:00 PM Exploration Studio 102

ATTENDING

Art	Ashley	BeGee	Christian	Connor	Cristy	Dave
Drew	Dylan	Elizabeth	Emilie	John	Kevin	Mark
Marta	Michael D.	Michael L.	Yvonne			

Guests:

The meeting opened at 6:00 PM in Studio 102. Those **attending** are listed above.

OLD BUSINESS

Image Processing Results–All

We looked at new results from Michael and Connor. Michael showed a nice set of centered images from Sep 29, 2015, each with circular masks to mask out the sky. Connor showed four centered images from his night, using both the circle tool from Marta, and a circle computed from the HORIZONS on-line ephemeris. Connor’s semi-automated centering scheme looks like it works pretty well, so we will discuss it some more at the next meeting.

Reading Assignment – Mark

Postponed until next meeting. Art has mentioned that the chapter is pretty dense with information. This might be the kind of thing that Mark can give a short lecture on, so stay tuned for that in future meeting agendas

Akatsuki Update – Mark

Some 2-micron Akatsuki images (the same wavelength as our IRTF telescope images) have been released to the science team. They have not been calibrated in an absolute sense (that is, we don’t yet know quantitatively what the brightness is of each pixel), but they have been calibrated geometrically (latitude and longitude across image). The images seem to have had some extra filtering or processing of an unknown nature. When Mark gets the OK to share these images, we will get a look at them. He will also see if he can get permission for the group to do wind velocity analyses on some of them.

NEW BUSINESS

Image Defect Removal – Mark

Postponed to a future meeting

POSTPONED

Imaging Geometry and Venus Geographical Coordinates – Mark

Mark demonstrated the use of a new tool from JPL called *Cosmographia*. It encodes the properties of all natural and most robotic objects in the solar system, and allows the user to visualize their observations in three dimensions. For a peek at *Cosmographia*, take a look at: <https://naif.jpl.nasa.gov/naif/cosmographia.html>

And if you are feeling brave, try downloading and running it!

The next meeting will be on 16 August 2016 at 6 PM. Studio 102

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator