

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

Date/Time/Location: 13 September 2016 6:00 PM Exploration Studio 102

**ATTENDING**

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

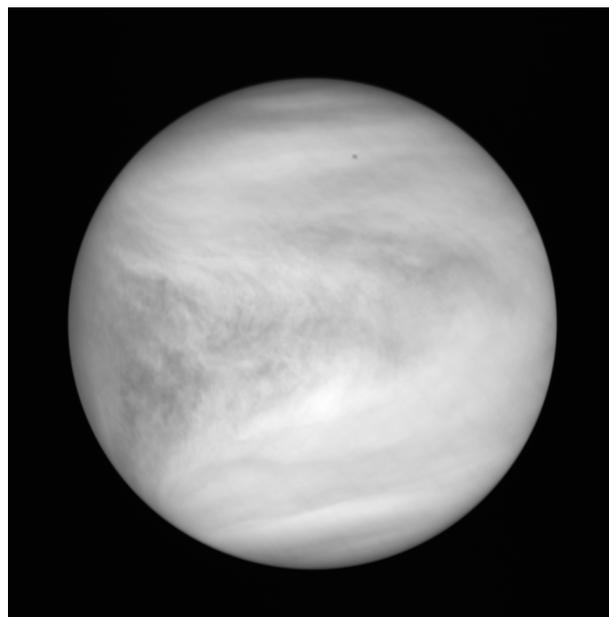
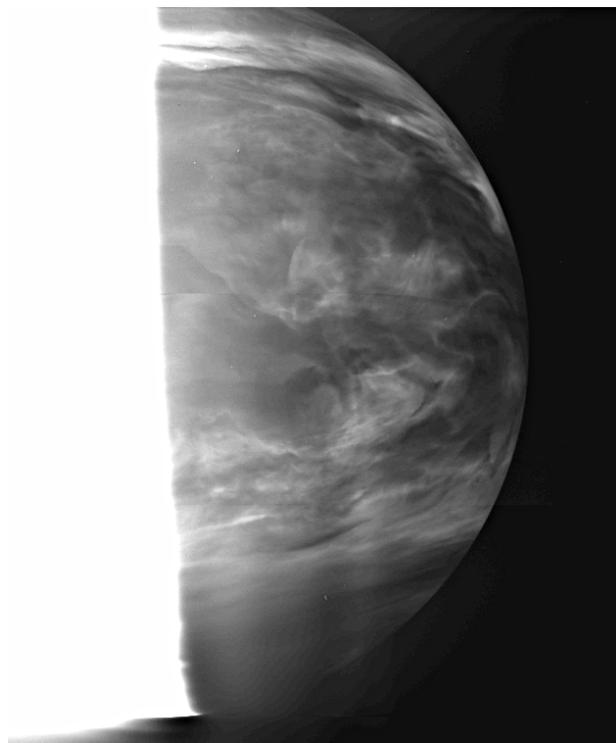
Guests:

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

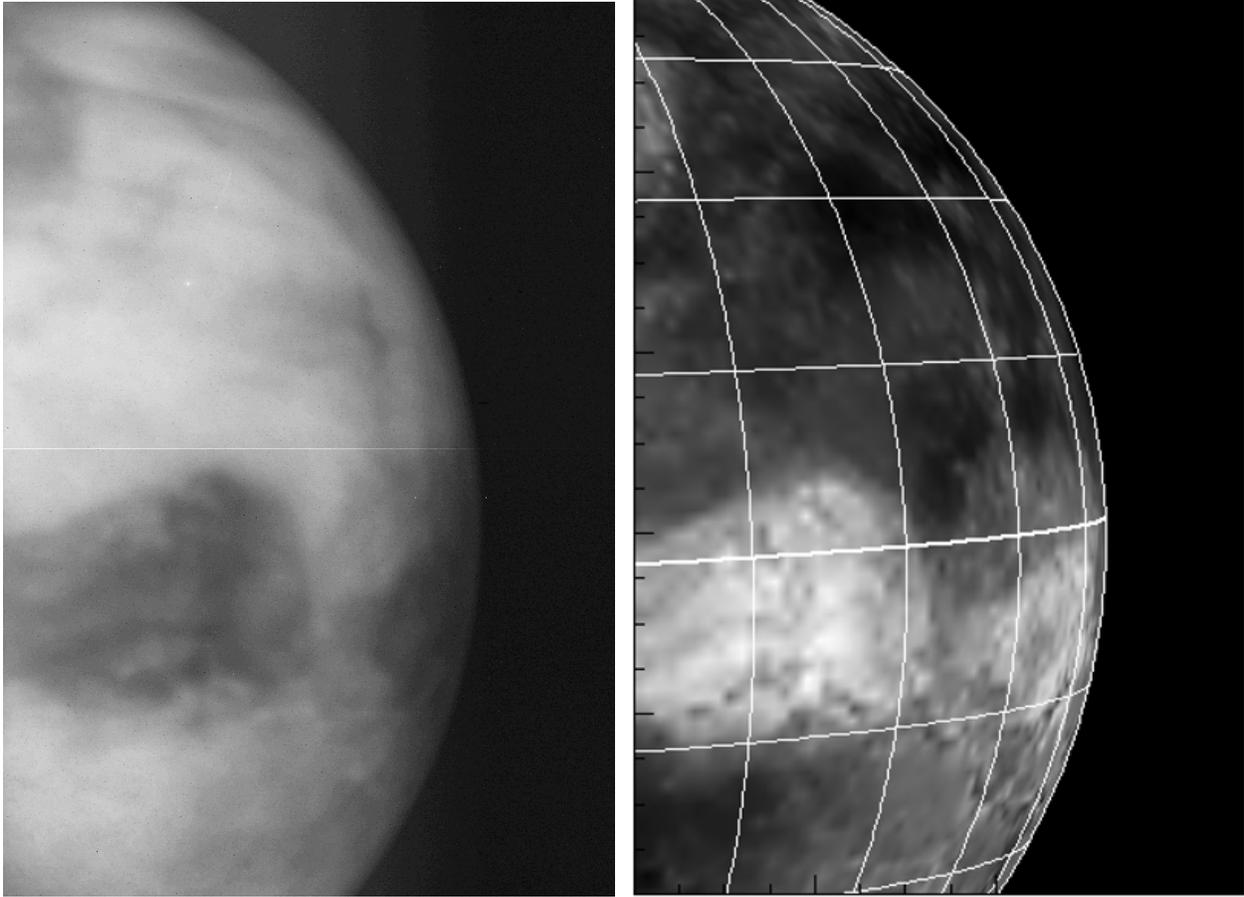
**OLD BUSINESS**

***Akatsuki Update*** – Mark

Mark just returned from an Akatsuki science team meeting in Japan, and presented some PowerPoint slides with new spacecraft images of Venus. A few of them are shown below, and we will post the PowerPoint slides to the Venus Winds web site in a few days.



Left: Venus night side at 2.3 micron wavelength. Right: Full Venus dayside in reflected solar UV light.



Left: Night side of Venus at 1.02 microns. This shows the temperature of the surface. Right: Not a spacecraft image, but a map of Venus' topography from Magellan. High areas are bright in this map, corresponding to dark areas in the image on the left.

#### **Google Groups** – Mark, BeeGee, Dave, Michael

Michael figured out that there are two ways to organize content on Google Groups – with *tags* or with *categories*. A discussion of the merits of each followed (along with trying out some things on the Google Group page in real time). Dave pointed out the advantage of tags over categories; Google Groups does not allow the use of both. Depending on the limitations and/or advantages of each, we will decide in the near future how to organize the Google Groups page.

### **POSTPONED**

#### **Image Processing Results**–All

We did not review recent results from group members this week. We will take a look at new centering and image clean up efforts on October 11.

#### **Removing Scattered Sunlight from the Images** – Mark, Art

Venus' night side clouds that are closest to the terminator in our 2.3 micron images are washed out because of sunlight scattered from the bright day side crescent to the night side. This part of

the image can be enhanced by mathematically subtracting an image of Venus taken at another wavelength. We will discuss the subtraction of images taken with a Bracket-gamma filter (2.16 microns) from the 2.3 micron images to improve cloud contrast near the terminator at the next meeting.

The museum's annual volunteer dinner takes place at the same time as our next regularly schedule meeting, at 6 pm on September 27, 2016. We urge everyone to register for the dinner and come early so that we can sit together. Mark will bring his telescope for those folks who want to do some observing after the dinner. Our next actual Venus Winds meeting will be on 11 October 2016 at 6 pm in Studio 102.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator