

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

Date/Time/Location: 20 August 2015 6:00 PM Exploration Studio 106

**ATTENDING**

<b>Art</b>	Ashley	Christian	Cristy	Dave	Drew	Dylan
<b>Elizabeth</b>	<b>Emilie</b>	John	<b>Kevin</b>	Nick H.	Nick Z.	<b>Mark</b>
Marta	Mica	Michael D.	<b>Michael L.</b>	Rachel	Ricardo	<b>Terran</b>
<b>Yvonne</b>						

Guests: **None**

The meeting opened at 6:00 PM at Exploration Studio 106 in the Morgridge Wing. Those **attending** are listed above.

**OLD BUSINESS**

**Wind velocities for analysis of July 4-13, 2004 data** Mark

The next step is analyzing 10 consecutive pairs of images in the series 4 July 2004 through 13 July 2004. Those steps, described in detail earlier by Mark in an e-mail to analysts on Friday, 7 August 2015, were presented as a *PowerPoint* PDF. The task is to center each image and to send those ten images to Mark who will then convert each image, using a cylindrical map projection, into a rectangular image. Kevin found an error in the map conversion; Mark will investigate and fix it.

Art displayed five pairs of images from the series 4 July 2004 through 13 July 2004 in a PowerPoint presentation. All five pairs showed possible targets for 24 hour movement of selected cloud features.

**Wind velocities for 10 nights in July 2004** Mark

After Mark has distributed projected rectangular images for the nights of July 4-13, 2004, we will determine velocities for each pair. He discussed the advantages of using rectangular images, rather than raw images, to determine wind speed.

**Basic planetary meteorology of Venus** Mark

Mark explained what drives Venus' winds and how our research will fill in some of the gaps in our knowledge of Venus meteorology.

**NEW BUSINESS**

**Removing spectrometer slit** Mark, Michael L. and Kevin

Mark described how to use Photoshop to eliminate the spectrometer slit; this was originally discovered by Marta. Michael figured out how to do this in Gimp. Instructions will be sent in a later e-mail.

**Identifying cloud features that repeat six days later** Mark

We examined images from July 4–13, 2004 and discovered that features seen on July 4 can also be seen on July 10; other features on July 5 can also be seen on July 11. This six-day interval is evidently the rotation period of the atmosphere at this altitude.

The next meeting on September 3 will be in Exploration Studio 102 (or 106) at 6 PM.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator