

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

Date/Time/Location: 26 April 2016 6:00 PM Studio 106

ATTENDING

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

Guests: None

The meeting opened at 6:00 PM in Studio 106. Although we were scheduled for 102, we continued having problems controlling projectors on the west side of 102 when the room divider is down. So we moved the meeting next door to Exploration Studio 106.

OLD BUSINESS

Assignment schedule and thumb drive distribution–Mark

Everyone has signed up for a specific night's images to analyze, via the Doodle Poll. Of the 11 nights from Dec 2010, Jan 2011, and Sep 2015, only Jan 7, 2011 and Sep 28, 2015 are unclaimed. Although Mark was not on the Doodle Poll, he assigned himself Jan 6, 2011. Mark distributed thumb drives, one for each observing night, to those who had signed up for a night and were at the meeting. The thumb drives are labeled by observing night, and contain the raw Venus images plus folders for each processing step. The folders for each processing step contain folders by name, where volunteers are to store their processing results.

***Akatsuki* Update – Kevin**

Good news and bad news. *Akatsuki* continues to perform well, receiving dozens of visible, ultraviolet, and infrared images of Venus each day. The images won't be released to the rest of the mission science team until the camera principal investigators are satisfied with their calibration. This may happen sometime in May, because Mark and Kevin will be attending another *Akatsuki* Science Working Team meeting in Japan May 30-31. This timing won't interfere with our meeting schedule. However, Kevin will begin his in-residence post at that time, living in Japan and working with the Japanese *Akatsuki* science team every day. He plans to return to the US in the autumn for a brief but as yet undetermined length of time, and then go back to Japan for much of the remainder of the mission (nominally 2 years).

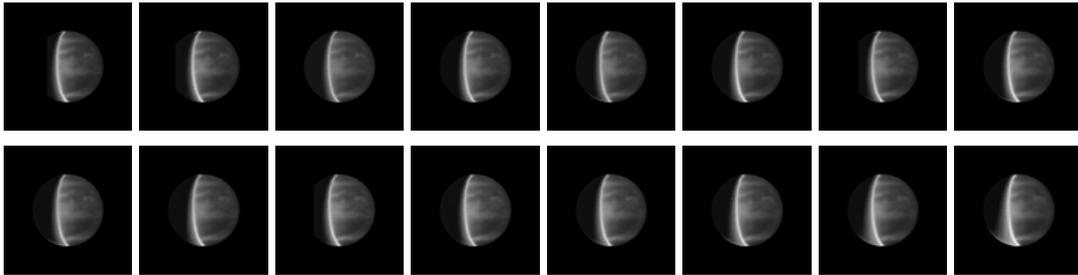
NEW BUSINESS

Science on a Sphere –Michael and Connor

Connor and Michael were able to project the large multi-colored Venus geologic map on Science on a Sphere, and even figured out how to magnify areas of the globe to look at them more closely. Unfortunately, there was an exclusive Museum donor meeting in Space Odyssey beginning at 6:30 pm. Mark will send some additional images to Connor and Michael for us to review on the SOS at the next meeting.

Assignment Results – Image centering– Marta

Marta demonstrated the results of her processing of Venus images from Dec 18, 2010. After choosing 16 of the best images, approximately equally spaced in time throughout the observing night, Marta first removed the spectrometer slit. Then she centered each image and adjusted their contrasts by hand to obtain very consistent, centered images. She then produced a QuickTime movie clip of her 16 images. At the meeting we copied her results to the Dec 17, 2010 thumb drive. Mark has uploaded them to the data server. You are encouraged to take a look at them. If you go to the ‘Centered images’ on the data server, you will see 11 folders with people’s names on them. Click on Marta’s folder, and you will see another folder called ‘20101218-LevelsAdjst’. In that folder are Marta’s centered and contrast-equalized images for Dec 18, 2010, as well as a movie clip in .mov format. Thumbnails of her processed images are shown below



In addition, there is a reading assignment: *The New Solar System* by Jim Pollack. This may be downloaded from the Venus Winds website.

The next meeting will be on 10 May 2016 at 6 PM. Studio 102.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator