

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

Date/Time/Location: 11 September 2014 6:00 PM Exploration Studio 106

ATTENDING

Boudreau	Bullock	Crowl	Diba	Doubek	Farrell
Gehring	Krider	Harter	Knutson	Lindsay	Logan
McGouldrick	Romero	Royer	Stewart	Tarr	Viera
Zimmerle					

Guest: Sandra Krider

The meeting opened at 6:15 PM at Exploration Studio 106 in the Morgridge Wing. Those **attending** are listed above.

OLD BUSINESS

New Venus Winds researcher recruitment from current DMNS volunteers Art
New researchers Michael Logan and Nikolas Zimmerle attended their first meeting. Welcome!

Mathematics of the rectangular coordinates transformation Mark, Art
Postponed

Investigate some images on JPL web sites Mark
Postponed

NEW BUSINESS

Wind velocity computations for 12 July 2004 images Mark
Mark introduced the general concepts for analysis of images from 12 July 2004. This analysis is intended to provide experience in downloading and processing FITS images from which data from those images will allow computation of wind velocities. The first exercise will involve two images (0001 and 3300) from 12 July 2004. The assignment is to identify a distinctive cloud near the Equator from which x,y image coordinates will be measured for the pair. The great-circle distance between the pair and the time difference will yield the velocity. Eight additional features, split between the Northern and Southern Hemispheres, should also be measured and velocities computed. Please bring your wind velocity plots to the next meeting on Sept. 25.

Venus Winds wiki Mark, Art
Mark discussed the concept behind the Venus Winds wiki for providing a repository for complete image datasets, results of wind velocity measurements, and useful documents and tutorials. He wiki provides a useful place for volunteers to upload and share results. The link to the wiki is:

http://wiki.boulder.swri.edu/mediawiki/index.php/Venus_Winds_Wiki .

Art described a repository for various tutorials covering such subjects as image categorization, image stacking, and the cartographic method for determining great-circle path lengths:

<http://wiki.boulder.swri.edu/mediawiki/index.php/Tutorials>

Workshops and Web page initiatives

Mark, Art

Discussion of possible workshops (e.g., *Image Registration; Other Digital Imaging Processing Steps; Categorization of Image Quality; Characterization of Clouds and Gaps; Co-registration; and Velocity Determination*).

Discussion of a Web-page devoted to presentation of Venus Winds Project results was postponed.

Scheduling November and December Meetings

Adjusting the schedule around Thanksgiving, Christmas, and New Year's Day was discussed. A tentative meeting schedule was decided for Nov. 6 and Nov. 20 (one week before Thanksgiving) and Dec. 4. Then there will be a four-week break; Jan. 8 will be the first meeting in 2015. The Nov. 6 and Nov. 20 meetings have already been scheduled for Exploration Studio 106.

The next meeting, on September 25, will be in Exploration Studio 106.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator