

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

Date/Time/Location 22 Jan 2015, 6:00 PM **Exploration Health 201**

AGENDA ITEMS CARRIED FORWARD

Wind velocity measurements using pre-defined points All researchers
Mark sent out an email with the 9 pre-defined points on the July 12, 2004 images, and a blank spreadsheet. The assignment was to calculate velocities from these images, just as you did before, but using these 9 pre-defined points instead of your own. Please bring your new spreadsheets to our next meeting on January 22, 2015.

Upcoming Assignment: Co-Register Images All researchers
Mark discussed the new assignment, which is to take each of your 9 images from Dec 14, 2010 and move Venus so that it is in the center of the 512x512 image. Please bring these new, shifted images with you to our next meeting on January 22, 2015.

Individual sub-group task reports

Sub-group *Slit Removal* (Proposer: Dylan)

Dylan and Mark discussed potential algorithms to automate slit removal from the images. Dylan will build upon existing program code.

Sub-group *Improved Online Tools* (Proposer: Ricardo)

Ricardo and an associate have been improving the coordinate recording tool that Ricardo demonstrated at an earlier meeting (November 6). The tool is available for testing at <http://venuswindsproject.org/>. Report your experience and any problems to Ricardo. Ricardo also suggested an improved method of rapidly examining a series of images for a specific dataset.

Sub-group *Plotting Rotation Curves* (Proposer: Christy)

Christy has agreed to calculate velocity vs. latitude speeds for a solid sphere rotator. She will plot the velocities of points at several latitudes on the surface of a sphere. There will be one curve for an equatorial velocity of 50 m/s, one for an equatorial velocity of 75 m/s, and one for an equatorial velocity of 100 m/s

Sub-group *Automated Co-Registration* (Proposer: Dave)

Dave discussed his research into available applications employing auto-correlation algorithms that would be employed in automated co-registration of images. He is planning to continue this research.

Telescope Night Mark

A crescent Moon will be setting in the west on the evening of January 22, 2015, so the conditions may be good for observing following the meeting. Weather and Museum

permitting, Mark will set up his 8” Schmidt-Cassegrain telescope for viewing some planets (Venus, Mars, Uranus, Neptune) and galaxies such as M31, the Andromeda Galaxy). Others are welcome to bring their own instruments. Since the meeting place is on the second floor of the Museum (in EH201), there are concerns about securing the equipment while we conduct the meeting. We will discuss options with the Museum and will inform our mailing list of the results before meeting night.

NEW AGENDA ITEMS SINCE LAST MEETING

New Project Web Site Marta

Marta has put together a new, functional web site for the Project! Marta will show this at the meeting and ask for feedback before she makes it ‘live’.