

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

Date/Time/Location 12 Feb 2015, 6:00 PM Exploration Studio 106

AGENDA ITEMS CARRIED FORWARD

Velocity Calculations: July 12, 2004 Images with Pre-Defined Points: All researchers Bring your finished spreadsheets with you or email to Art before the meeting. We will be projecting each person's results and making some comparisons.

Assignment: Co-Register Images All researchers Bring your list of 9 images from Dec 14, 2010, or email to Art before the meeting. We will be projecting these 9 images from each researcher, and discuss how to co-register them.

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 has been researching available applications employing auto-correlation algorithms that would be employed in automated co-registration of images. He is planning to continue this research.

NEW AGENDA ITEMS SINCE LAST MEETING

Image Co-Registration: Mark

Mark will go through the process of centering each of 9 images from Dec 14, 2010, using Photoshop and GIMP. With the tutorials on the new web page and this demonstration, you should have enough information to start trying this yourself.

Assignment: Co-Register Images All Researchers

Your assignment for the next 2 weeks is to center each of your 9 images from Dec 14, 2010 in a 512 x 512 image. Then bring these 9 processed images with you or email to Art before the meeting. The next meeting will be Thursday Feb 26 at 6:00 pm.