

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

Date/Time/Location: 9 October 2014 6:00 PM Exploration Studio 106

ATTENDING

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

Guests: **Sandy Krider**

The meeting opened at 6:00 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

The researcher recruitment has closed. We welcomed new researchers **Rachel Parziale** and **Nick Heit** to the Venus Winds Project.

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*).

Your results and experience All researchers

Mark released nine images from the 20040712 dataset. Researchers were to choose the same nine tracking points on each image and record their coordinates on a spreadsheet. If possible, velocity components $U(x)$ and $V(y)$ should be computed. Several researchers showed their results which were quite plausible.

Mathematics of spherical coordinates into rectangular coordinates Art

Art gave a short presentation on several classical cartographic projections which are used in this Project. These are the Oblique Orthographic and Equatorial Cylindrical projections. The latter projection has been adopted for our provisional analysis and training purposes.

Wind velocity computations for 12 July 2004 images Mark

Mark described a new Excel workbook for the velocity computations for 12 July 2004 images. This workbook design allows for up to nine images.

NEW BUSINESS

Remote access to Venus Winds Project meetings Michael Doubeck

Michael described and demonstrated InterCall software that enables remote access of the meetings to multiple researchers. It is expected that it would expand participation when circumstances made it difficult or impossible to physically attend meetings.

New method of recording x,y coordinates Ricardo Mark

An extended demonstration of a new software method of recording x,y coordinate pairs was shown by Ricardo. This method allows for coordinate capture directly to a spreadsheet without the need for manual entry and removal of one source of possible error.

Your results and experience: 7 July 2004 All researchers

This is a continuation of sharing your results from the 7 July 2004 sequence of nine images.

New velocity measurement exercise: 14 Dec 2010 Mark

Mark announced that he will send out nine images from 14 Dec 2010 and a new spreadsheet for recording the movement of nine points.

The meeting closed at 8:15 PM.

The next meeting on October 23 will be in the usual space, Exploration Studio 106.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator