

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

Date/Time/Location: 31 July 6:00 PM Exploration Studio 102

ATTENDING

Bullock	Doubek	Harter	Knutson	Lindsay	McGouldrick
Romero	Royer	Tarr			

Guests: **Ashley Farrell, Drew Gehring, David Crowl**

The meeting opened at 6:00 PM at Exploration Studio 102 in the Morgridge Wing. Those **attending** are listed above.

OLD BUSINESS

New Venus Winds researcher recruitment Art

Three guests, Ashley Farrell, Drew Gehring and David Crowl were introduced as potential new recruits for Venus Winds Project researchers. Ashley and Drew are currently DMNS volunteers and David is a friend of Michael Doubek.

Venus Winds wiki improvements Mark

Postponed until we enlist more researchers

Mathematics of the rectangular coordinates transformation Mark, Art

Postponed

Investigate some images on JPL web sites Mark

Postponed

FITS headers Mark

Mark discussed the relevant fields in a FITS header: UTC time signature; min/max data value in file; plate scale. The *plate scale* field is the size of an image pixel, in arc seconds per pixel. However, the listed plate scale (0.12 arcsec/pixel) is in error; the actual value, as measured by Mark and Elliot is 0.116 arcsec/pixel.

NEW BUSINESS

Overview of the Venus Winds Project Mark

Mark gave an overview of the project, starting with the Project wiki. He then discussed the scientific motivations for the project, acquisition of imaging and spectral data, and a little about the image processing steps. He talked about the importance of accuracy in the image co-registration steps, methods for determining velocities from the images, and plans for publication. He then showed Michael Doubek's excellent training video. See it at:

<http://www.brainshark.com/intercall2007/vu?pi=zHxzLEbU6zBtywz0>

This website asks for your name and email address. Just put in your name (no email necessary).

Pot luck/Star party Mark

A pot luck/star party will be held at Mark Bullock's house in Boulder for the next meeting on August 14 at 7:00 PM. Details will follow.

New assignment : Wind velocity computations for 12 July 2004 images Mark

Mark briefly introduced and discussed nine new images from 12 July 2004. He will distribute the images and provide a new spreadsheet for the velocity computations. Plot at least 9 latitude points on each image in the 12 July 2004 series and enter x,y values into the spreadsheet. Try to pick points that are widely-spaced in latitude. Due 28 August.

The meeting on 28 August will be in Exploration Studio 106.

Submitted by Arthur C. Tarr, Venus Winds Project Coordinator