

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

Date/Time/Location 7 January 2016, 6:00 PM Exploration Studio 102

AGENDA ITEMS CARRIED FORWARD

Synopsis of Current Assignments – Mark

We are currently working with 3 datasets – images from the 10 nights of July 2004, the 7 nights of December 2010, and the most recent data from 4 nights in September 2015. Mark will discuss where we are with the analysis of each of these datasets.

NEW AGENDA ITEMS SINCE LAST MEETING

Image Processing Steps – Mark

Mark will present a top-down view of the entire project, beginning with the raw data and describing each processing step. We will talk about which software tools and techniques need to be applied at each step, and how we are going to keep track of progress (see New System for Submitting Results). There are three kinds of final products:

1. Movies of cloud motion
2. Plots of wind velocity
3. Papers for publication

New System for Submitting Results – Mark

Mark will demonstrate the use of the SwRI server for uploading the results of volunteers' assignments. A folder is assigned to each volunteer. In this folder are sub-folders for storing the results of each processing step. There is a sub-folder for images that have been 'cleaned' (spectrometer slit removed, detector imperfections and bad pixels removed). There is another folder for centered images and there is a sub-folder for storing 'superimages' (images comprised of several centered images added together). There are also sub-folders for the next steps – images with scattered sunlight removed; cylindrically transformed images; movies; and a sub-folder to place your velocity spreadsheet results. Within each of the sub-folders, images and results are stored in sub-sub folders designated by observing date.

Akatsuki Mission Developments – Kevin

Kevin will discuss the current status of the Japanese Akatsuki mission to Venus. Some new images at similar wavelengths to our images have been released, and there are some interesting features in them that we haven't seen before.

Choosing the Correct Image Centering Tool – Art

Art will discuss his method for choosing the correct size of the circle centering tool, based on the observation date and the apparent size of Venus' disk.