

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

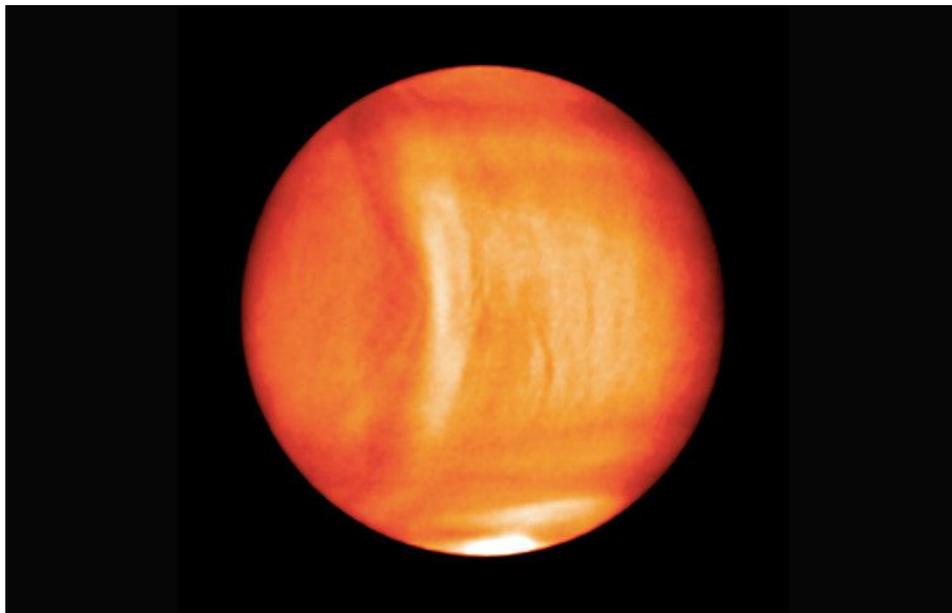
Date/Time/Location 17 Jan 2017, 6:00 PM

Exploration Studio 102

AGENDA

Project Goals for 2017

The most extensive image sets of Venus' night hemisphere suggest that Venus' strong east-west winds may be periodic with a period between 7 and 10 days. Now the most recent infrared images from Akatsuki show a huge, stationary wave near the Venus terminator (Fig 1).



These two observations (periodic east-west winds and the large gravity wave) are probably related. We have the most extensive set of images of Venus' night side clouds that have ever been acquired, and are therefore in a unique position to figure out what is going on with Venus' atmospheric circulation than any other group.

Therefore, our goal for 2017 is to determine east-west wind velocities in Venus' atmosphere over enough days to either support or refute the hypothesis of wind periodicity and its connection to the gravity wave feature seen in Fig. 1.

This effort will require all of the image processing skills that we learned in 2016, and the processing of images from most of the observing runs from 2001 to 2013 (plus the new images we will acquire in March and April of this year).

We will discuss the detailed plans to carry out this research, and the data products that we expect to produce by the end of the year.

AGENDA ITEMS CARRIED FORWARD

Image Processing Results–All

New results from volunteers on image-centering, image cleanup, and subtracting scattered sunlight will be shared first. Recall that the goal is to get 16 co-registered and cleaned up images for your night. In addition, it would be good to hear about any results (encouraging or otherwise) on subtracting scattered sunlight from the example images that Mark handed out last time.

Adobe Photoshop Licences – Mark, Art

Steve Lee has arranged for us to purchase up to 10 individual Adobe Photoshop licenses. We will be collecting contact information and computer type (PC, Mac, or Linux) from each volunteer that would like a copy.