

COORDINATED GROUND-BASED MEASUREMENTS WITH VCO/AKATSUKI AND VENUS EXPRESS

3rd Sakura meeting, ISAS, Japan

21-22 Nov. 2011

Monday, Nov. 21, 2011

Morning 11:00-12:15

ISAS - Room 1334 (Building A, 3F)

11:00 – **Shoko Ohtsuki, Yukihiro Takahashi, Thomas Widemann** – Welcome remarks and overview

11:15 – **Sanjay Limaye** – Update on Venus Exploration and Analysis Group (VEXAG)

11:30 - **Takeshi Imamura** (ISAS/JAXA) – Status of Akatsuki

11:45 – Discussion : 2012-2015 observing strategies in support of VEx and Akatsuki

12:15 – lunch

Afternoon 14:00-18:00

ISAS - Room 1334 (Building A, 3F)

14:00 - **Masahiro Takagi** (Univ. of Tokyo), General/Meridional circulation

14:15 - **Takeshi Imamura** (ISAS/JAXA), Stationary equatorial modes

14:30 - **Naoki Satoh** (Gakugei Univ.), Momentum flux inferred from the VEX/VMC data

14:45 - **Hiroki Ando** (graduate student, Univ. of Tokyo) Atmospheric gravity waves observed by radio occultation

15:00 – Discussion and coffee break

15:30 - **Toru Kouyama** (graduate student, Univ. of Tokyo), Long-term variation of the super-rotation and relations to waves

15:45 - **Hiroki Matsui** (graduate student, Univ. of Tokyo) / Naomoto Iwagami (Univ. of Tokyo) / George L. Hashimoto (Okayama Univ.), Source of D/H positive gradient above the clouds

16:00 - **Mayu Hosoushi** (graduate student, Univ. of Tokyo), ground-based dayside CO₂ 1.7 μ m spectroscopy

16:15 – Discussion : observations and dynamics

Tuesday, Nov. 22, 2011

Morning 9:30-12:15

ISAS - Room 1334 (Building A, 3F)

9:30 - **Marie-Ève Gagné** (U. Toronto/Canadian Space Agency) O₂ emission modeling [Monday 7:30pm]

9:45 – **Shoko Ohtsuki** (ISAS/JAXA), a brief introduction to a proposal for next ground-based observations of 1.27 um airglow

10:00 - **Thomas Widemann** (Obs. Paris/LESIA) HST, VEx, ground-based coordination at June 5-6 transit

10:15 - **Atsushi Yamazaki** (ISAS/JAXA), a brief introduction to Venus observation plan in transit using Hinode spacecraft

10:30 – Discussion and coffee break

11:00 **Eliot Young** - International balloon-borne mission to observe the planet Venus [Monday 7:00pm]

11:30 – **Yukihiro Takahashi** – Instrumentation for a balloon-borne mission

11:45 **Sanjay Limaye** – NASA context of a balloon mission

12:00 **Hideo Sagawa** (NiCT), a brief introduction to a proposal for next ground-based observations in sub-mm (by skype)

12:15 – lunch

Afternoon 15:00-18:00

ISAS - Room 1535 (Building A, 5F)

15:00 - **Tetsuya Fukuhara** (Hokkaido Univ.), LIR observations

15:15 – **Pedro Machado** (U. Lisbon and Paris Obs.) ESO/UVES Doppler wind measurements

15:30 – **Arnaud Mahieux** (BISA) – VEx/SOIR activity and results (by video link) [Tuesday 7:30 am]

16:00 – **Manuela Sornig** (Cologne) – Heterodyne 10-um results (by video link) [Tuesday 8:00 am]

16:15 – Coffee break

16:30 Discussion : long-term collaboration between ground-based observers, Venus Express science teams and Akatsuki science teams.

17:30 – Future meetings :

- COSPAR session on Venus Exploration (Masato and Hakan are Conveners).

- JSPS/PHC Sakura meeting in France

- Japan Geoscience Union (JpGU) Meeting, 20-25 May, 2012 - Science Conference on Comparative Climatology of the Terrestrial Planets, Boulder, June 25-28 organized by VEXAG, the Outer Planets Assessment Group (OPAG), and the Mars Exploration Analysis Group (MEPAG)

18:00 – closing remarks.