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| **Monday 02 June 2025** | | |
| ***Session 1: 20th Century Knowledges & Remaining Enigmas About Venusian Atmosphere (Chairs: Takehiko Satoh, Modak)*** | | |
| 09:00-09:10 | Welcome & Introduction | Xiaolong Dong |
| 09:10-09:35 | USSR Missions (Historical Challenges) | Dima Titov |
| 09:35-10:00 | Mariners & Pioneer Venus Orbiter | Sanjay Limaye |
| 10:00-10:30 | Coffee Break |  |
| 10:30-10:55 | Novel Cloud Aerosol Composition from Pioneer Venus Large Probe Data | Rakesh Mogul (online) |
| 10:55-11:20 | Current Status of Japanese Venus Climate Orbiter AKATSUKI | Masato Nakamura |
| 11:20-12:00 | Space-age Discoveries & How to Address the Unsolved Mysteries of the Venus Atmosphere | Larry Esposito (online) |
| 12:00-13:00 | Lunch Break |  |
| ***Session 2: Overviews of the Latest Venus Missions: Venus Express & Akatsuki (Chairs: Kevin McGouldrick, Rommy Aliste)*** | | |
| 13:00-13:30 | Venus Express achievements (excl. VeRa) | Titov + Tellmann |
| 13:30-13:55 | Venus Atmospheric Dynamics from the Lowest Clouds to the Mesosphere from Venus Express | Ricardo Hueso |
| 13:55-14:20 | Possible Evidence of Crustal Magnetic Field on Venus: Results from Venus Express | Zhaojing Rong |
| 14:20-14:50 | Coffee Break |  |
| 14:50-15:20 | Akatsuki achievements (excl. RS) | Takeshi Imamura; Takehiko Satoh |
| 15:20-15:40 | Cloud Discontinuity | Takehiko Satoh |
| 15:40-16:00 | Hydraulic Jump Model | Takeshi Imamura |
| 16:00-16:20 | Discussion |  |
| 16:20-17:20 | Preparation for the Drafting of the Review Papers | Xiaolong Dong; Takehiko Satoh |
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| **Tuesday 03 June 2025** | |  |
| ***Session 3: Atmospheric Structure (Chairs: Yeon Joo Lee, Dexin Lai)*** | | |
| 09:00-09:25 | VEx/VeRa Overview | Silvia Tellmann |
| 09:25-09:50 | Akatsuki/RS Overview | Takeshi Imamura |
| 09:50-10:10 | Polar Region Structure | Hiroki Ando (online) |
| 10:10-10:25 | Exploring Super-rotation & Zonal Wind Dynamics in Venus' Middle Atmosphere: Insights from Akatsuki Radio Occultation Data | Ancy Jerald |
| 10:25-10:45 | Coffee Break |  |
| 10:45-11:05 | Repeat Pass Interferometry & SO2 Variability in the Lower Atmosphere | Scott Hensley (online) |
| 11:05-11:25 | Research on Passive Microwave Remote Sensing of the Atmosphere Below & Within the Sulfuric Clouds of Venus | Zijin Zhang; Wenyu Wang |
| 11:25-11:40 | Venusian Polar Tropopause Variations Using Radio Occultation | Miyu Sugiura |
| 11:40-12:05 | Oxygen, Reduced Sulfur Species, & UV Absorption in the Venusian Atmosphere | Frank Mills (online) |
| 12:05-12:25 | Prospects for Future Trace Species Detections at UV Wavelengths, Lessons from Hubble | Kandis Lea Jessup (online) |
| 12:25-13:25 | Lunch Break |  |
| ***Session 4: Atmospheric Chemistry, Albedo, & Aerosols (Chairs: Garate Lopez, Ancy Jerald)*** | | |
| 13:25-13:50 | Venus UV Albedo (Korean Cubesat) | Yeon Joo Lee |
| 13:50-14:05 | Local Time Dependence of UV Albedo of Venus | Rommy Aliste |
| 14:05-14:20 | Investigating FeCl3 from Meteoric Iron as a Near-UV Absorber in Venusian Clouds | Joanna Egan (online) |
| 14:20-14:40 | Variability of Aerosol Properties in the Upper Haze of Venus from SPICAV-UV, SPICAV-IR, & SOIR Solar Occultation Observations Onboard Venus Express | Mikhail Luginin |
| 14:40-14:55 | A Microphysics Model of Multicomponent Venus’ Clouds with a High-Accuracy Condensation Scheme | Hiroki Karyu |
| 14:55-15:15 | Coffee Break |  |
| 15:15-15:35 | Microphysical Modeling | Kevin McGouldrick |
| 15:35-15:50 | Radiative Transfer Modeling Study to Retrieve SO2 Abundance & Unknown Absorbers on Venus | Ashimananda Modak |
| 15:50-16:10 | Water and Sulfur Dioxide Thermal Mapping on Venus : Long-term Monitoring & Vertical Distribution of SO2 Within & Above the Clouds | Therese Encrenaz (online) |
| 16:10-16:25 | 1D Model Study of Venusian Sulfur Cycles in the Clouds & Atmospheric Chemistry | Longkang Dai |
| 16:25-16:40 | Temporal & Spatial Variability of Cloud Properties & Temperature Profiles from VIRTIS-M Data | Jaime Reyes Guerrero |
| 16:40-17:00 | Discussion |  |
| **18:00** | **Social Dinner at Second Floor Park Plaza Hotel** | |
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| **Wednesday 04 June 2025** | |  |
| ***Session 5: Atmospheric Dynamics: Stability & Variability of the Zonal Wind & Atmospheric Waves (Chairs: Jun Yang, Reyes Guerrero)*** | | |
| 09:00-09:25 | What Can Venus's Clouds Tell us About the Atmospheric Circulation & its Evolution? | Javier Peralta |
| 09:25-09:50 | Venus Atmospheric Circulation & its Variations from VMC/Venus Express & UVI/ Akatsuki Imaging | Marina Patsaeva |
| 09:50-10:15 | Variability of Winds at Around the Cloud Top of Venus | Takeshi Horinouchi |
| 10:15-10:25 | Group Photo |  |
| 10:25-10:45 | Coffee Break |  |
| 10:45-11:00 | Mountain Waves & Thermal Tides of the Venusian Atmosphere Analyzed through Thermal Infrared Images and Radio Occultation | Zhuan Guo |
| 11:00-11:25 | How Do Planetary-scale Waves Drive Venus Cloud-layer Superrotation? | Tao Li |
| 11:25-11:50 | Dynamics of the Venus Polar Vortices | Itziar Garate Lopez |
| 11:50-12:15 | A Possible Explanation on the Dynamics of Venusian Binary Polar Cyclones | Tao Cai |
| 12:15-12:30 | Discussion |  |
| 12:30-13:30 | Lunch Break |  |
| 13:30 | Free Afternoon with Excursion |  |
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| **Thursday 05 June 2025** | |  |
| ***Session 6: Atmospheric Dynamics (Continued); Ionosphere & Eeronomy (Chairs: Silvia Tellmann, Hiroki Karyu)*** | | |
| 09:00-09:25 | Observation of a 5-day Transient Wave at the Cloud Top of Venus by Akatsuki | Masataka Imai (online) |
| 09:25-09:50 | Atmospheric Heat Transport on Terrestrial Exoplanets: from Exo-Mercuries to Exo-Venuses | Daniel Koll |
| 09:50-10:15 | Venus' Atmospheric Studies: AGW (Akatsuki UVI) & Doppler Winds, Volcanic Plumes (Modelling) | Pedro Machado |
| 10:15-10:30 | How Thermal Tides Contribute to Venus Cloud-Layer Superrotation | [ECR] Dexing Lai |
| 10:30-10:50 | Coffee Break |  |
| 10:50-11:15 | Formation of Meteor Layer (V0) in Venusian Ionosphere Due to Interplanetary Dust Ablation | Jayesh Pabari |
| 11:15-11:40 | Hydrogen escape on Venus driven by protonated chemistry | Hao Gu |
| 11:40-11:55 | The Response of the Venusian Upper Atmosphere During the Passage of Interplanetary Coronal Mass Ejections | Diptiranjan Rout (online) |
| 11:55-12:20 | The variability of the topside ionosphere of Venus as seen by VEX VeRa | Kerstin Peter (online) |
| 12:20-13:20 | Lunch Break |  |
| ***Session 7: Numerical Simulations, Including Data Assimilation (Chairs: Takeshi Imamura, Miyu Sugiura)*** | | |
| 13:20-13:35 | Dynamics & Variability of the Venusian Atmosphere: Insights from Models & Observations | Jayadev Pradeep (online) |
| 13:35-13:55 | Modelling the Atmospheric Dynamics in Terrestrial Planets | Yoshiyuki Hayashi |
| 13:55-14:15 | Model Development and Simulation Applications for the Martian Atmosphere | Yiyuan Li |
| 14:15-14:35 |  | Masahiro Takagi (online) |
| 14:35-14:55 | Planetary-scale Waves in a Venus AORI GCM | Masaru Yamamoto (online) |
| 14:55-15:15 | Coffee Break |  |
| 15:15-15:35 | Stably Stratified Layer in the Lower Atmosphere of Venus | George Hashimoto |
| 15:35-15:55 | Status of the Venus PCM, Results & Needs for Improvements | Sebastien Lebonnois (online) |
| 15:55-16:10 | Towards In-droplet Sulphur Chemistry in the Venus Clouds with the Venus Planetary Climate Model (PCM) | Alberto Mendi (online) |
| 16:10-16:30 | Recent Improvements & Results of AFES-Venus & ALEDAS-V | Norihiko Sugimoto |
| 16:30-16:45 | Unveiling Energy Conversions of the Venus Atmosphere by the Bred Vectors | Jianyu Liang |
| 16:45-17:05 | Science Activities Related to VenSpec-U/EnVision | Emmanuel Marcq (online) |
| 17:05-17:25 | Discussion |  |
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| **Friday 06 June 2025** | |  |
| ***Session 8: Outstanding Problems & Future Missions (Chairs: Xiaolong Dong, Jianyu Liang)*** | | |
| 09:00-09:20 | Sources of Hydrogen in the Primordial Atmosphere of Venus | You Zhou |
| 09:20-09:40 | Climate Evolution of Early Venus: Two Different Scenarios | Jun Yang |
| 09:40-10:00 | Retention of Surface Water on Rocky Planets in the Venus Zone | Feng Ding |
| 10:00-10:20 | Photochemistry & Haze in Chemically Reducing Terrestrial Atmospheres | Siteng Fan |
| 10:20-10:40 | From Lab to Cosmos: Simulating Planetary Atmospheric Chemistry | Chao He |
| 10:40-11:00 | Coffee Break |  |
| 11:00-11:20 | Life on Venus | Sanjay Limaye |
| 11:20-11:40 | LEAVES: Exploring Tricky Questions with New Paradigms | Kandis Lea Jessup (online) |
| 11:40-12:00 | VERITAS: Providing the Next Generation of Geologic & Geophysical Measurements of Venus | Scott Hensley (online) |
| 12:00-13:00 | Lunch Break |  |
| ***Session 8: Session Continued (Chairs: Takehiko Satoh, Guo Zhuan)*** | | |
| 13:00-13:20 | DAVINCI | TBD |
| 13:20-13:40 | EnVision | Silvia Tellmann |
| 13:40-14:00 | Indian VOM | Maria Antonita |
| 14:00-14:20 | The Venera-D Mission for a Comprehensive Study of Venus | Dmitry Gorinov |
| 14:20-14:40 | Coffee Break |  |
| 14:40-15:00 | Japanese CROVA | Hiroki Ando (online) |
| 15:00-15:20 | Chinese Mission | Xiaolong Dong |
| 15:20-15:40 | Discussion |  |
| 15:40-15:50 | Concluding Remarks | Xiaolong Dong |
| 15:50 | End of Workshop |  |