

Proposal of Venus Lander Mission: To Reveal the Venus's Climate Controlled by Chemical Interaction Between Atmosphere and Surface

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To reveal the climate evolution on Venus during 4.5 billion years, it is necessary to understand the mechanism which controls the Venus' climate. It has been suggested that the coupling between the atmospheric composition and atmospheric temperature controls the Venus' climate. On Venus, chemical-interaction between the atmosphere and surface plays an important role in the control of atmospheric composition, however chemical state of Venus' surface is poorly known. We need an exploration which determines the chemical state of Venus' surface.