



PAC meeting
March 5, 2024

VEXAG

2023 Findings
Inter-AG findings doc
Upcoming Activities

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**Term ends in July 2024



VEXAG FINDINGS 2023

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Finalized January 2024,
Delivered to NASA and the
Community

R&A Finding:

A “Precursor Science Investigations – Discovery” (PSI-D) R&A program, focused on ensuring success of and maximum scientific return from upcoming Discovery missions and the EnVision partnership, is in the interests of the planetary community. PSI-D could focus on any selected Discovery mission stages prior to primary Phase E science, and thus would currently specifically include VERITAS and DAVINCI, possibly EnVision, as well as Psyche and Lucy. Proposals could include laboratory studies, development, modeling, planetary mapping, precursor observations, etc. that could affect, augment, or improve late primary mission phases, and/or extended mission phases and/or enhance specific investigations or mission science goals following the model of Precursor Science Investigations for Europa (PSI-E). Proposals to PSI-D could target missions in phases B through D (or part-way through E until a mission’s primary science phase begins).



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In-Situ Technologies Finding:

VEXAG finds that a solar-system-wide push for in-situ exploration technology would enable critical follow-ons to the DAVINCI, VERITAS, and EnVision missions, as well as missions to other planetary environments. A next logical step in Venus exploration is for in-situ observations (in-atmosphere, and on-surface), and we need to continue to support technology that will do this. To this end, we encourage a final **HOTTech (HOTTech 3) program** to focus on maturing important technologies and integration into platforms and systems, and the initiation of a new **“CloudTech” program** for technologies and science instruments for the Venus clouds and other planets.

CROSS-AG FINDINGS

VEXAG



Document is intended as a reference for NASA Assessment Group [AG] leadership, HQ, and potentially other parties, so that latest findings can be accessed, referred to, and potentially commented upon and discussed with individual AGs and the Cross-AG leadership.

https://docs.google.com/document/d/1Vq6uMgao0FuOcS7bj_CnWICDmpu6McBBLG46VwHYmY8/edit?usp=sharing

(Also QR code to left)

As of 2/27/2024: VEXAG, XAG EDIA WG, and SBAG have findings/draft findings on doc



Upcoming VEXAG events, etc.

Townhall at LPSC

*Release of Exploration Strategy



VEXAG

Update of GOI, Roadmap, Tech Plan documents (Spring-Summer '24)

LPI Initiative meeting #4 (Summer '24?)

Exoplanets in our Backyard 3 (Nov. '24)

22nd VEXAG, November '24