



IPDA/Venus Express Interoperability Project

June 30, 2009

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PDS/Atmospheres Node

Project Team Members

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- Steve Hughes & Sean Kelly (PDS/EN)
- Ed Guinness (PDS/GEO)
- David Heather (PSA/ESTEC)
- Jesus Salgado & Pedro Osuna (PSA/ESAC)

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Mission Overview

- Launched in November 2005
- Arrival at Venus in April 2006
- Currently in extended mission phase
- Unlike for MEX, there is no MOU to provide VEX data to the PDS... all data will reside only at the PSA

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Instrument Suite

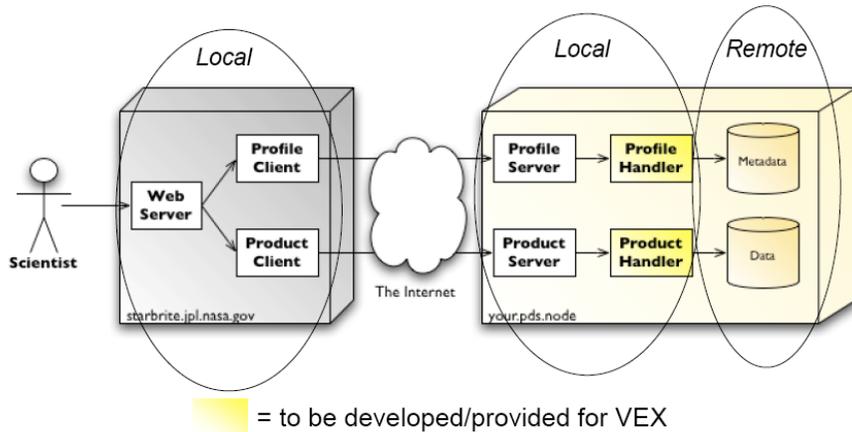
Instrument	Heritage
Venus Monitoring Camera (VMC)	MEX/new
Analyser of Space Plasma and Energetic Atoms (ASPERA)	MEX
Planetary Fourier Spectrometer (PFS)	MEX
Visible and Infrared Thermal Imaging Spectrometer (VIRTIS)	Rosetta
Venus Express Magnetometer (MAG)	Rosetta
Venus Radio Science Experiment (VeRa)	Rosetta
Spectroscopy for the Investigation of Characteristics of the Atmosphere of Venus (SPICAV/SOIR)	MEX/new

Some of these data are ingested into the PSA

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Proposed Architecture



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Status as of June 2009

- Profile server at EN is functional
- ATMOS can talk to EN profile server and access VEX data
- Entry pages being developed by student
- Ready to integrate the entry pages with the results from the profile server
- Can find the VEX data on the PDS from the following link: <http://atmos.nmsu.edu:8080/pds/power.jsp> (select Venus Express mission and hit Go at the bottom of the page)

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VEX Profile Server Results

Atmospheres Data Set Search Results

http://atmos.nmsu.edu:8080/pds/ser/vlet/pds.servlets.QueryServlet

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Search Results (3 data sets found)

Data Set	Instrument Host	Information About the Data Set	Data Products & Related Files	Other Resources
1. VENUS EXPRESS VENUS VMC 3 V1.0	VEX	VEX-V-VMC-3-RDR-V1.0		VMC_1001
2. VENUS EXPRESS SKY/VENUS SPICAV 3 SOIR V1.0	VEX	VEX-YIV-SPICAV-3-SOIR-V1.0		VEXSPI_2003
3. VENUS EXPRESS VENUS VMC 3 V1.0	VEX	VEX-V-VMC-3-RDR-V1.0		VMC_1001

Page 1 | New Search

PDS Atmospheres Geosciences Imaging NAIF PPI Rings Small Bodies Engineering Management

FIRSTGOV
+ Freedom of Information Act
+ NASA 2008 Strategic Plan
+ NASA Privacy Statement, Disclaimer, and Accessibility Certification
+ Copyright/Reuse Policy

NASA
Curator: Lytle Huber
Webmaster: Lytle Huber
NASA Official: William Knopf
Last Updated: NaN undefined NaN
+ Comments and Questions

click this to get....

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VEX Profile Server Results

Atmospheres Data Set Profile

http://atmos.nmsu.edu:8080/pds/viewDataset.jsp?dsid=VEX-V-VMC-3-RDR-V1.0

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VENUS EXPRESS VENUS VMC 3 V1.0

Citation
Access/Download Data Set
Data set abstract
Additional Information
Mission Information
Dataset Information
Instrument Host Information
Instrument Information
Other Resources

Citation TBD
VEX-V-VMC-3-RDR-V1.0
VENUS EXPRESS VENUS VMC 3 V1.0

Mission Information: VENUS EXPRESS
Dataset Information: VEX-V-VMC-3-RDR-V1.0
Instrument Host Information: null
Instrument Information: SPICAV-SOIR,VMC
Other Resources: http://psa.esac.esa.int:8000/ato/jsp/profileXML.jsp?DATA_SET_ID=D-VEX-YIV-SPICAV-3-SOIR-V1.0

FULL_NAME: VENUS EXPRESS VENUS VMC 3 V1.0
TARGET_NAME: VENUS
RESOURCE_NAME: PSA Query Service
INSTITUTION_NAME: DLR
NODE_NAME:
START_TIME: 2006-04-12 15:00:01.383333333
INSTRUMENT_NAME: VENUS MONITORING CAMERA

then click this link to get this data listing...

PERSON.CAT
REF.CAT
INSTHOST.CAT
SOFT.CAT
DATASET.CAT
INST.CAT
TARGET.CAT
MISSION.CAT
CATINFO.TXT
RELEASE.CAT

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Summary

- Proof-of-concept PSA-PDS interoperability has been demonstrated
- Final steps:
 - Finish entry pages on PDS Atmospheres Node and formally announce availability of VEX data
 - Integrate remaining VEX data sets as they become available