

PSPA-00034 File Number	Mission	Experiment	Brief Description of Contents of File in PSPA-00034	PDS Filename(s)
001	Pioneer Venus Large Probe (Pioneer Venus Sounder Probe)	Atmospheric Structure (LAS)	LAS Data Description	data_atm_struct/descent_low_atm/las_low_atm_state_descr.txt
002	Pioneer Venus Large Probe	Atmospheric Structure (LAS)	Lower Atmospheric State Properties from LAS: Pressure (Bar), Temperature (K), Density (kg/m3), Gas Compressibility Factor = P/(Rho X RT)	data_atm_struct/descent_low_atm/las_low_atm_state.csv data_atm_struct/descent_low_atm/las_low_atm_state.xml
003	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR Data Description	data_lir/lir_calibration_descr.txt data_lir/lir_descent_descr.txt data_lir/lir_pre-entry_descr.txt
004	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR On-board Calibration Data for Time and Flux (W/m2) for four spectral Bandpasses : 3-250 Micrometer Spectral Bandpass 6-7 Micrometer Spectral Bandpass 7-8 Micrometer Spectral Bandpass 8-9 Micrometer Spectral Bandpass	data_lir/lir_calibration.csv data_lir/lir_calibration.xml
005	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR Decent Data for Time and Flux (W/m2) for four spectral Bandpasses	data_lir/lir_descent.csv data_lir/lir_descent.xml
006	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR Pre-Entry Data for Time and Flux (W/m2) for four spectral Bandpasses	data_lir/lir_pre-entry.csv data_lir/lir_pre-entry.xml
007	Pioneer Venus Large Probe	Solar Flux Radiometer (LSFR)	LSFR Data Description	data_lsfr/lsfr_solar_flux_descr.txt
008	Pioneer Venus Large Probe	Solar Flux Radiometer (LSFR)	LSFR Flux Measurement; Time (GRT), Pressure (Atm), Altitude (km), and Fluxes (W/m2) for upward going, downward going, and net (downward going minus upward going) flux in the LSFR visible channel, upward going, downward going, and net fluxes for the LSFR combined channel upward going, downward going, and net fluxes for the LSFR narrow-band (NB) channel	data_lsfr/lsfr_solar_flux.csv data_lsfr/lsfr_solar_flux.csv
009	Pioneer Venus Bus Probe and/or Pioneer Venus Large Probe	Bus Neutral Mass Spectrometer (BNMS) and/or Large Probe Neutral Mass Spectrometer (LNMS)	Data Description of MSMODEL file. ** File missing in PSPA-00034, commented as useless data in the NSSDCA dataset description pspa00034.pdf (also known as dataset catalog #627).	N/A
010	Pioneer Venus Bus Probe and/or Pioneer Venus Large Probe	Bus Neutral Mass Spectrometer (BNMS) and/or Large Probe Neutral Mass Spectrometer (LNMS)	Morning Side Model Rev. 3. ** File missing in PSPA-00034, commented as useless data in the NSSDCA dataset description pspa00034.pdf (also known as dataset catalog #627).	N/A
011	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Bulletin (a historical note stating about 30 orbits of OPA data will be added to the PV SED dataset at a time)	Captured in Appendix A of the PVSED User's Guide
012	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock : Orbits 1-31: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
013	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock : Orbits 32-62: Orbit No, Inbound Time, Speed and Density, Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
014	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock : Orbits 63-92: Orbit No, Inbound Time, Speed and Density, Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
015	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock : Orbits 94-124: Orbit No, Inbound Time, Speed and Density, Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
016	Pioneer Venus Small Probe (North)	Atmosphere Structure (SAS)	SAS Data Description	data_atm_struct/descent_low_atm/sas_north_low_atm_state_descr.txt
017	Pioneer Venus Small Probe (North)	Atmosphere Structure (SAS)	Lower Atmospheric State Properties from SAS: Pressure (Bar), Temperature (K), Density (kg/m3), Gas Compressibility Factor = P/(Rho X RT)	data_atm_struct/descent_low_atm/sas_north_low_atm_state.csv data_atm_struct/descent_low_atm/sas_north_low_atm_state_descr.txt data_atm_struct/descent_low_atm/sas_north_low_atm_state.xml
018	Pioneer Venus Small Probe (Day)	Atmosphere Structure (SAS)	SAS Data Description	data_atm_struct/descent_low_atm/sas_day_low_atm_state_descr.txt
019	Pioneer Venus Small Probe (Day)	Atmosphere Structure (SAS)	Lower Atmospheric State Properties from SAS: Pressure (Bar), Temperature (K), Density (kg/m3), Gas Compressibility Factor = P/(Rho X RT)	data_atm_struct/descent_low_atm/sas_day_low_atm_state.csv data_atm_struct/descent_low_atm/sas_day_low_atm_state_descr.txt data_atm_struct/descent_low_atm/sas_day_low_atm_state.xml
020	Pioneer Venus Small Probe (Night)	Atmosphere Structure (SAS)	SAS Data Description	data_atm_struct/descent_low_atm/sas_night_low_atm_state_descr.txt
021	Pioneer Venus Small Probe (Night)	Atmosphere Structure (SAS)	Lower Atmospheric State Properties from SAS: Pressure (Bar), Temperature (K), Density (kg/m3), Gas Compressibility Factor = P/(Rho X RT)	data_atm_struct/descent_low_atm/sas_night_low_atm_state.csv data_atm_struct/descent_low_atm/sas_night_low_atm_state_descr.txt data_atm_struct/descent_low_atm/sas_night_low_atm_state.xml

022	Pioneer Venus Small Probe	Net Flux Radiometer (SNFR)	SNFR Data Description	data_snfr/snfr_day_net_flux_descr.txt data_snfr/snfr_night_net_flux_descr.txt data_snfr/snfr_north_net_flux_descr.txt
023	Pioneer Venus Small Probe (North)	Net Flux Radiometer (SNFR)	Net Flux Data from North Probe SNFR: GRT, Altitude (km), Pressure (Bar), Temperature (K), External Sensor Temperature (K), Net Total Radiative Flux Density (W/m2), Net Flux Corrected For Estimated Effects of Deployment Transient, Rate Of Change Of Offset, And Non Vertical Attitude	data_snfr/snfr_north_net_flux.csv data_snfr/snfr_north_net_flux.xml
024	Pioneer Venus Small Probe (Day)	Net Flux Radiometer (SNFR)	Net Flux Data from Day Probe SNFR: GRT, Altitude (km), Pressure (Bar), Temperature (K), External Sensor Temperature (K), Net Total Radiative Flux Density (W/m2), Net Flux Corrected For Estimated Effects of Deployment Transient, Rate Of Change Of Offset, And Non Vertical Attitude	data_snfr/snfr_day_net_flux.csv data_snfr/snfr_day_net_flux.xml
025	Pioneer Venus Small Probe (Night)	Net Flux Radiometer (SNFR)	Net Flux Data from Night Probe SNFR: GRT, Altitude (km), Pressure (Bar), Temperature (K), External Sensor Temperature (K), Net Total Radiative Flux Density (W/m2), Net Flux Corrected For Estimated Effects of Deployment Transient, Rate Of Change Of Offset, And Non Vertical Attitude	data_snfr/snfr_night_net_flux.csv data_snfr/snfr_night_net_flux.xml
026	Pioneer Venus Probe Bus	Bus Neutral Mass Spectrometer (BNMS)	BNMS Data (Update 0) ** File missing in PSPA-0034, commented as useless data in the NSSDCA dataset description pspa00034.pdf (also known as dataset catalog #627).	N/A
027	Pioneer Venus Small Probe (Day)	Nephelometer (SN)	Backscatter Channel Angular Weighting Function : Angle (Deg) and Normalized Angular Weighting Function Backscatter Channel Data : Time (GMT) , Backscatter (1/M-Ster) Ambient Background Radiation Channels Spectral Functions :Wavelength (Nanometer), Spectral Function (H unit; Microwatts/Meter Squared-Steradian-Nanometer) for UV and Visible channels Ambient Background Radiation Channels Data: Time (GMT), Nephelometer Reading in "H" unit for UV and Visible channels Instrument Temperature at LED location: Time (GMT), Temperature (C)	data_neph/sn_day_background_uv.csv data_neph/sn_day_background_uv.xml data_neph/sn_day_background_uv_vis_h_units.csv data_neph/sn_day_background_uv_vis_h_units.xml data_neph/sn_day_background_vis.csv data_neph/sn_day_background_vis.xml data_neph/sn_day_backscatter.csv data_neph/sn_day_backscatter.xml data_neph/sn_day_backscatter_angular_weighting.csv data_neph/sn_day_backscatter_angular_weighting.xml data_neph/sn_day_temperature.csv data_neph/sn_day_temperature.xml
028	Pioneer Venus Large Probe	Gas Chromatograph (LGC)	LGC Atmospheric Composition Data File missing in PSPA-0034. However a two-page listing of these data are contained in the NSSDCA dataset description pspa00034.pdf (also known as dataset catalog #627).	data_lgc/lgc_low_atm_comp.csv data_lgc/lgc_low_atm_comp.xml
029	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR Description File	data_lir/lir_pre-entry_checkout_descr.txt
030	Pioneer Venus Large Probe	Infrared Radiometer (LIR)	LIR Pre-Entry Data for Time (HH:MM:SS) and Flux (W/m2) for four spectral Bandpasses for SYSTEM CHECK OUT PURPOSES. ON-BOARD CALIBRATION DATA HAS BEEN REMOVED AS EVIDENCED BY THE TIME GAPS Channel A: 3-160 (about) Micrometer Spectral Bandpass Channel B: 6-7 Micrometer Spectral Bandpass Channel C: 7-8 Micrometer Spectral Bandpass Channel D: 8-9 Micrometer Spectral Bandpass	data_lir/lir_pre-entry_checkout.csv data_lir/lir_pre-entry_checkout.xml
031	Pioneer Venus Small Probe (Night)	Nephelometer (SN)	1.1 Backscatter Channel Angular Weighting Function : Angle (Deg) and Normalized Angular Weighting Function 1.2 Backscatter Channel Data : Time (GMT) , Backscatter (1/M-Ster) 2.1 Ambient Background Radiation Channels Spectral Functions : Wavelength (Nanometer), Spectral Function (H unit; Microwatts/Meter Squared-Steradian-Nanometer) for UV and Visible channels 2.2 Ambient Background Radiation Channels Data: Time (GMT), Nephelometer Reading in "H" unit for UV and Visible channels 3. Instrument Temperature at LED location: Time (GMT), Temperature (C)	data_neph/sn_night_background_uv.csv data_neph/sn_night_background_uv.xml data_neph/sn_night_background_uv_vis_h_units.csv data_neph/sn_night_background_uv_vis_h_units.xml data_neph/sn_night_background_vis.csv data_neph/sn_night_background_vis.xml data_neph/sn_night_backscatter.csv data_neph/sn_night_backscatter.xml data_neph/sn_night_backscatter_angular_weighting.csv data_neph/sn_night_backscatter_angular_weighting.xml data_neph/sn_night_temperature.csv data_neph/sn_night_temperature.xml

032	Pioneer Venus Small Probe (North)	Nephelometer (SN)	1.1 Backscatter Channel Angular Weighting Function : Angle (Deg) and Normalized Angular Weighting Function 1.2 Backscatter Channel Data : Time (GMT) , Backscatter (1/M-Ster) 2.1 Ambient Background Radiation Channels Spectral Functions : Wavelength (Nanometer), Spectral Function (H unit; Microwatts/Meter Squared-Steradian-Nanometer) for UV and Visible channels 2.2 Ambient Background Radiation Channels Data: Time (GMT), Nephelometer Reading in "H" unit for UV and Visible channels 3. Instrument Temperature at LED location: Time (GMT), Temperature (C)	data_neph/sn_north_background_uv.csv data_neph/sn_north_background_uv.xml data_neph/sn_north_background_uv_vis_h_units.csv data_neph/sn_north_background_uv_vis_h_units.xml data_neph/sn_north_background_vis.csv data_neph/sn_north_background_vis.xml data_neph/sn_north_backscatter.csv data_neph/sn_north_backscatter.xml data_neph/sn_north_backscatter_angular_weighting.csv data_neph/sn_north_backscatter_angular_weighting.xml data_neph/sn_north_temperature.csv data_neph/sn_north_temperature.xml
033	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Solar Wind Proton Bulk Velocity Orbit 007 : Time, Velocity (km/sec)	data_opa/opa_orbit7_9min_bulk_velocities.csv data_opa/opa_orbit7_9min_bulk_velocities.xml
034	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 129-152: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
035	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 158-186: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
036	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 187-217: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
037	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 218-247: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
038	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 287-308: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
039	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 309-338: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
040	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 340-369: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
041	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 371-397: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
042	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 402-432: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
043	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 437-462: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
044	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 464-494: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
045	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 495-525: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
046	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 526-556: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
047	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 557-587: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
048	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 588-618: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
049	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 619-640: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
050	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 659-680: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
051	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 681-707: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
052	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 713-740: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml

053	Pioneer Venus Large Probe (Sounder)	Nephelometer (LN)	1.1 Backscatter Channel Angular Weighting Function : Angle (Deg) and Normalized Angular Weighting Function 1.2 Backscatter Channel Data : Time (GMT) , Backscatter (1/M-Ster) 2.1 Ambient Background Radiation Channels Spectral Functions : Wavelength (Nanometer), Spectral Function (H unit; Microwatts/Meter Squared-Steradian-Nanometer) for UV and Visible channels 2.2 Ambient Background Radiation Channels Data: Time (GMT), Nephelometer Reading in "H" unit for UV and Visible channels 3. Instrument Temperature at LED location: Time (GMT), Temperature (C)	data_neph/ln_background_uv.csv data_neph/ln_background_uv.xml data_neph/ln_background_uv_vis_h_units.csv data_neph/ln_background_uv_vis_h_units.xml data_neph/ln_background_vis.csv data_neph/ln_background_vis.xml data_neph/ln_backscatter.csv data_neph/ln_backscatter.xml data_neph/ln_backscatter_angular_weighting.csv data_neph/ln_backscatter_angular_weighting.xml data_neph/ln_temperature.csv data_neph/ln_temperature.xml
054	Pioneer Venus Drag Atmospheric Model	Pioneer Venus Drag Atmospheric Model (OAD) [Radio Science]	The Local Solar Time (Hr), Altitude (km), Density (g/cc), Number Density of Atomic Oxygen in part (/cc), Ratio of number densities of O/CO2, and Temperature	data_oad/oad_atm_drag_model.csv data_oad/oad_atm_drag_model.xml
055	Pioneer Venus Drag	Pioneer Venus Drag Atmospheric Observation (OAD) [Radio Science]	VENUS DRAG Observations for Orbits 5-246: Time (Month/Day/Year), Rev No, Altitude (km), Density (g/CC), Error in Density (Density/Density), Scale Height (km), Exospheric Temperature, Local Solar Time (hr), Venus Longitude	data_oad/oad_atm_density.csv data_oad/oad_atm_density.xml
056	Pioneer Venus Small Probe (Day and Night)	Atmosphere Structure (SAS)	SAS Data Description - Bulletin announcing SAS Day and Night Probe Data have been added	data_atm_struct/entry_mid_atm/sas_day_mid_atm_state_descr.txt data_atm_struct/entry_mid_atm/sas_night_mid_atm_state_descr.txt
057	Pioneer Venus Small Probe (Night)	Atmosphere Structure (SAS)	SAS Night Probe Entry Data (Final): Time (hh min), Time (sec), Altitude (km), Probe Velocity (km/s), Probe Path Angle below Horizon (Deg), Density (kg/m3), Pressure (mb), Temperature (K) * File includes an overall narrative for the Atmospheric Structure data * File includes a table that extends the state properties higher altitudes: Altitude (km), Density (kg/m3), Pressure (mb), Temperature (K)	data_atm_struct/entry_high_atm/sas_night_high_atm_state.csv data_atm_struct/entry_high_atm/sas_night_high_atm_state.xml data_atm_struct/entry_high_atm/sas_night_high_atm_state_descr.txt data_atm_struct/entry_mid_atm/sas_day_mid_atm_state_descr.txt data_atm_struct/entry_mid_atm/sas_night_mid_atm_state.csv data_atm_struct/entry_mid_atm/sas_night_mid_atm_state.xml data_atm_struct/entry_mid_atm/sas_night_mid_atm_state_descr.txt data_atm_struct/entry_mid_atm/sas_north_mid_atm_state_descr.txt
058	Pioneer Venus Small Probe (Day)	Atmosphere Structure (SAS)	SAS Day Probe Entry Data (Final) Time (hh min), Time (sec), Altitude (km), Probe Velocity (km/s), Probe Path Angle below Horizon (Deg), Density (kg/m3), Pressure (mb), Temperature (K)	data_atm_struct/entry_mid_atm/sas_day_mid_atm_state.csv data_atm_struct/entry_mid_atm/sas_day_mid_atm_state.xml data_atm_struct/entry_mid_atm/sas_day_mid_atm_state_descr.txt
059	Pioneer Venus Small Probe (North, Day and Night)	Atmosphere Structure (SAS)	SAS Data Description - Bulletin announcing SAS North Probe Data have been added and SAS Data from Day and Night Probes have been updated (final)	data_atm_struct/entry_mid_atm/sas_north_mid_atm_state_descr.txt
060	Pioneer Venus Small Probe (North)	Atmosphere Structure (SAS)	SAS North Probe Entry Data: Time (hh min), Time (sec), Altitude (km), Probe Velocity (km/s), Probe Path Angle below Horizon (Deg), Density (kg/m3), Pressure (mb), Temperature (K)	data_atm_struct/entry_mid_atm/sas_north_mid_atm_state.csv data_atm_struct/entry_mid_atm/sas_north_mid_atm_state.xml data_atm_struct/entry_mid_atm/sas_north_mid_atm_state_descr.txt
061	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Bulletin (a historical note stating orbit numbers in file 065 have been corrected)	Captured in Appendix B of the PVSED User's Guide
062	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 743-773: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
063	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 774-804: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
064	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 806-824: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
065	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 878-890: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
066	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 898-918: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
067	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 927-956: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
068	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 959-988: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
069	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 989-1019: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml
070	Pioneer Venus Orbiter	Solar Wind Plasma Analyzer (OPA)	OPA Proton Parameters outside Bow Shock for Orbits 1020-1050: Orbit No, Inbound Time, Speed (km) and Density (#/cm3), Outbound Time, Speed and Density	data_opa/opa_proton_params.csv data_opa/opa_proton_params.xml