

PV-OIMS LOW RESOLUTION DATABASE

This ASCII dataset was provided by the principal investigators to National Space Science Data Center. The binary dataset has been reformatted by Planetary Data System into a standard form consistent with other Pioneer Venus datasets. The reformatting primarily involves the ASCII-to-binary conversion and a slightly different format for the time tag. The dataset was created on a DEC PDP 11/70 computer. The data are from the first 2000 orbits of the Pioneer Venus Orbiter, covering the period from planet encounter (December 1978) to May 1984. Each data record includes these data: time (yr, doy, decimal sec); orbit number; time tag (from -1800 to +1800 in increments of 12); and the number densities (number per cc) of 12 individual positive ion species (O, O₂, NO, CO₂, C, N, H, He, atomic oxygen 18, O₂, CO, and N₂) in the order described in the format file accompanying the data (OIMSDATA.FMT). The values are derived by taking an average of all measurements with the 12s of each UADS sample time. Possible error sources are described in the documentation.