Pioneer Venus Orbiter

OAD Atm Drag Orb5-620 on Floppy

78-051A-19D

This data set has been updated and replaces the previous floppy. The updated data is on a CD-RW. The KF and KD Numbers and the time span for the KD number is as follows:

KD	KF	FILES	TIME SPAN
KD022740	KF000080	2	12/09/78 - 08/15/80

From: SMTP%"hsu@aries.larc.nasa.gov" 17-JUN-1994 16:30:18.81
To: KASPRZAK
CC:
Subj:

Date: Fri, 17 Jun 94 16:21:53 -0400
From: hsu@aries.larc.nasa.gov (christina hsu)
Message-Id: <9406172021.AA10567@aries.larc.nasa.gov>
To: KASPRZAK@oz.gsfc.nasa.gov

Dear Dr. Kasprzak,

Attached below are the preliminary results of the atmospheric drag measurements made during the PVO re-entry phase in 1992. The atmospheric density was measured at half scale height above the periapsis altitude so that the results won't be sensitive to the assumed scale height (referred to Keating et al., 1979).

Best Regards,
Christina Hsu

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orbit#	LST(hrs)	km	rho(g/cm^3)
5013	23.93	181.60	0.1815E-15
5014	0.03	178.00	0.3288E-15
5015	0.15	174.50	0.8962E-15
5016	0.25	170.40	0.7746E-15
5017	0.35	167.10	0.4044E-14
5018	0.47	162.90	0.4131E-14
5019	0.57	158.90	0.8036E-14
5020	0.68	154.70	0.2286E-13
5021	0.78	150.20	0.1491E-13
5022	0.90	145.60	0.1821E-13
5023	1.00	141.00	0.2538E-12
5024	1.12	136.70	0.1119E-11
5025	1.22	156.80	0.9836E-14
5026	1.32	152.20	0.3170E-13
5027	1.43	147.40	0.6778E-13
5028	1.53	142.60	0.1859E-12
5029	1.65	138.10	0.8987E-12
5030	1.75	133.80	0.3092E-11
5031	1.85	149.20	0.2933E-13
5032	1.97	144.30	0.1046E-12
5033	2.07	139.70	0.4565E-12
5034	2.17	135.40	0.1652E-11
5035	2.28	151.10	0.3039E-13
5036	2.38	146.40	0.5134E-13
5037	2.48	142.20	0.2044E-12
5038	2.60	138.10	0.1068E-11
5039	2.70	134.40	0.2619E-11
5040	2.82	148.80	0.3604E-13
5041	2.92	144.70	0.1087E-12
5042	3.02	140.60	0.2574E-12
5043	3.12	137.10	0.1511E-11
5044	3.23	135.10	0.2495E-11
5045	3.33	147.40	0.6534E-13
5046	3.43	143.80	0.1105E-12
5047	3.55	140.50	0.4138E-12
5048	3.65	137.60	0.1228E-11
5049	3.75	134.60	0.2575E-11
5050	3.85	142.70	0.2312E-12
5051	3.97	140.00	0.6730E-12
5052	4.07	137.80	0.1904E-11

5053	4.17	135.30	0.2514E-11
5054	4.27	132.80	0.4642E-11
5055	4.38	130.20	0.1173E-10

PV_OAD_5_620.TXT:
Pioneer Venus OAD data for orbits 5-620. The basic format is the same as Table 1 in

Keating, G.M., J.Y. Nicholson III, and R. Lake, Venus Upper Atmosphere Structure,
J. Geophys. Res., 85, 7941-7956, 1980

although the position data have been updated.

PV_OAD_5013_5055.TXT:
Pioneer Venus OAD data for orbits 5013-5055 are contained in an E-mail message from
Christina Hsu. The Keating et al., 1979 reference in the E-mail is the reference above. Christina is still at GSFC