#839

SM-21A SPHE-00759

Bow Shook and Magnetopause Positions

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents To find associated documents you will need to know the document ID number and then click here. http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

SM-21A SPHE-00759

Bow Shock and Magnetopause Positions

This data set catalog consists of one CD-ROM w/o containing magnetopause crossings. These data were originally submitted in the late '70's by D. Fairfield on magnetic tape. An updated version was submitted by Dave Sibeck in the early 90's and was written to a CD-ROM as a replacement for the magnetic tape. These data are written as 1 text file on the CD and the entire listing of the file is contained in this data set catalog. The inventory control numbers follow:

KD Number	KW Number	Files	Timespan
KD020781	KW000153	1	11/27/63 - 01/31/86

This list of magnetopause crossings represents an update of one originally submitted by D. H. Fairfield to the NSSDC. The location of the magnetopause crossing is shown in spherical E coordinates. The solar wind dynamic pressure is shown in Pascals, the GSM IMF Bz component is shown in nT. Solar wind dynamic pressure values of 0.0 and IMF Bz values of 99.90 indicate no data were available. Hourly averages of the solar wind parameters were used for each magnetopause crossing. The preceeding hour's solar wind parameters were used when crossings occurred within the first 14 min (inclusive) of an hour. Only one crossing is used per hour when spacecraft make a series of magnetopause crossings.

The spacecraft identifier (SC) is: 1. For crossings originally identified by Fairfield [1971], 2. IMP-6 crossings identified by Eastman [1979], 3. ISEE-1/2 crossings identified by Rijnbeek [1984], 4. CCE crossings, 5. No points, 6. Further ISEE 1/2 crossings, 7. Explorer 33 and Heos-2 crossings identified by Crooker, Paschmann et al. [1976], and Haerendel et al. [1978], 8. Prognoz-10 crossings idenfied by Zastenker, 9. IMP-6 crossings idenfied by Lui, 10. IMP-8 crossings identified by Lui, 11. IRM crossings, 12. Further IMP-8 crossings, 13. OGO-5 crossings identified by Slavin, 14. Prognoz-7 crossings identified by Zastenker, 15. Prognoz-8 crossings identified by Zastenker.

YEAR	DAY	HR	MIN	RADIUS	GSELON	GSELAT	SC	SW DYN PRES	IMF BZ GSE
1963	331	8	15	12.00	315.80	-26.25	1	0.00000E+00	99.90
1963	334	19	10	10.80	355.60	11.80	1	0.00000E+00	99.90
1963	335	4	53	10.90	310.00	-27.38	1	0.00000E+00	99.90
1963	339	2	55	11.90	307.00	-26.48	1	0.00000E+00	99.90
1963	342	13	40	10.50	349.30	12.61	1	0.00000E+00	99.90
963	342	23	55	11.70	302.90	-26.38	1	0.00000E+00	99.90
1963	346	10	55	10.80	344.60	12.78	1	0.00000E+00	99.90
1963	354	7	5	8.10	343.40	18.61	1	0.00000E+00	99.90
1963	358	1	30	12.30	331.70	11.73	1	0.00000E+00	99.90
1963	358	14	0	13.00	288.90	-25.12	1	0.00000E+00	99.90
1963	362	0	15	10.30	331.10	14.66	1	0.00000E+00	99.90
1963	362	11	15	12.80	284.50	-25.43	1	0.00000E+00	99.90
1964	4	17	55	11.20	322.50	13.99	1	0.00000E+00	99.90
1964	5	6	15	13.70	277.40	-24.51	1	0.00000E+00	99.90
1964	8	16	0	10.10	320.00	16.17	1	0.00000E+00	99.90
1964	13	3	10	16.10	272.70	-22.24	1	0.00000E+00	99.90
1964	16	11	10	8.80	316.50	19.31	1	0.00000E+00	99.90
1964	16	23	0	14.80	273.40	-23.42	1	0.00000E+00	99.90
1964	20	5	50	12.40	304.90	13.06	1	0.00000E+00	99.90
1964	20	21	0	15.80	264.10	-22.71	1	0.00000E+00	99.90
1964	24	3	15	12.20	301.50	13.75	1	0.00000E+00	99.90
1964	27	23	25	13.40	296.20	12.02	1	0.00000E+00	99.90
1964	28	15	10	15.40	255.70	-22.99	1	0.00000E+00	99.90
1964	31	21	45	11.70	294.50	14.37	1	0.00000E+00	99.90
1964	35	16	40	14.60	285.80	11.05	1	0.00000E+00	99.90
1964	36	12	10	18.10	251.50	-20.35	1	0.00000E+00	99.90
1964	39	16	30	11.60	287.10	15.47	1	0.00000E+00	99.90
1964	40	11	15	19.60	248.40	-19.36	1	0.00000E+00	99.90
1964	44	7	0	18.50	243.30	-20.25	1	0.00000E+00	99.90
1964	48	5	5	19.20	240.60	-19.44	1	0.00000E+00	99.90
1964	54	23	0	18.30	262.70	8.15	1	0.00000E+00	99.90
1964	58	23	0	15.30	261.60	10.90	1	0.00000E+00	99.90
1964	60	7	0	26.10	234.80	-13.75	1	0.00000E+00	99.90
1964	62	13	0	21.80	251.50	5.26	1	0.00000E+00	99.90
1964	66	16	10	17.00	251.90	10.17	1	0.00000E+00	99.90

1964	278	8	55	10.00	342.30	-37.76	1	0.00000E+00	99.90
1964	279	9	10	10.30	14.60	-3.32	1	0.00000E+00	99.90
1964	279	20	25	10.80	343.40	-35.71	1	0.00000E+00	99.90
1964	280	19	30	10.70	12.50	-3.76	1	0.00000E+00	99.90
1964	281	7	55	11.60	343.60	-34.13	1	0.00000E+00	99.90
1964	282	6	30	10.30	11.70	-3.33	1	0.00000E+00	99.90
1964	282	17	28	10.50	339.80	-36.38	1	0.00000E+00	99.90
1964	283	15	5	12.30	6.60	-7.48	1	0.00000E+00	99.90
1964	284	5	40	11.90	341.90	-33.04	1	0.00000E+00	99.90
1964	285	15	16	11.00	337.70	-35.08	1	0.00000E+00	99.90
1964	286	14	32	10.40	7.20	-2.76	1	0.00000E+00	99.90
1964	288	1	42	9.90	7.00	-1.16	1	0.00000E+00	99.90
1964	288	13	10	11.50	336.60	-33.73	1	0.00000E+00	99.90
1964	289	11	5	11.10	3.10	4.12	1	0.00000E+00	99.90
1964	289	23	9	10.80	333.70	-35.14	1	0.00000E+00	99.90
1964	291	9	22	10.40	330.70	-36.08	1	0.00000E+00	99.90
1964	292	10	15	9.10	3.80	1.26	1	0.00000E+00	99.90
1964	292	19	1	9.10	325.90	-38.65	1	0.00000E+00	99.90
1964	293	19	25	10.80	359.50	-3.18	1	0.00000E+00	99.90
1964	294	7	10	10.80	329.40	-35.07	1	0.00000E+00	99.90
1964	295	6	15	10.70	357.90	-2.67	1	0.00000E+00	99.90
1964	295	17	51	10.80	327.90	-35.01	1	0.00000E+00	99.90
1964	296	14	50	12.50	353.50	-6.91	1	0.00000E+00	99.90
1964	298	3	10	11.10	354.30	-3.11	1	0.00000E+00	99.90
1964	298	15	0	10.60	324.80	-35.09	1	0.00000E+00	99.90
1964	299	13	40	11.20	352.80	-3.58	1	0.00000E+00	99.90
1964	300	0	11	9.90	321.10	-36.53	1	0.00000E+00	99.90
1964	301	12	30	10.70	322.40	-34.60	1	0.00000E+00	99.90
1964	302	11	25	10.80	351.00	-2.64	1	0.00000E+00	99.90
1964	302	23	15	10.80	321.30	-34.23	1	0.00000E+00	99.90
1964	303	20	5	12.50	346.10	-6.41	1	0.00000E+00	99.90
1964	304	10	39	11.60	321.70	-33.05	1	0.00000E+00	99.90
1964	305	7	52	11.70	346.10	-4.42	1	0.00000E+00	99.90
1964	305	20	33	10.80	318.60	-34.34	1	0.00000E+00	99.90
1964	308	4	45	12.10	342.60	-4.74	1	0.00000E+00	99.90
1964	308	20	45	13.10	321.00	-29.21	1	0.00000E+00	99.90
1964	309	16	20	11.20	342.90	-2.56	1	0.00000E+00	99.90
1964	311	2	40	11.60	340.80	-3.47	1	0.00000E+00	99.90
1964	311	18	40	13.50	319.10	-28.25	1	0.00000E+00	99.90
1964	313	0	30	9.30	306.70	-37.76	1	0.00000E+00	99.90
1964	314	1	30	10.10	340.80	0.57	1	0.00000E+00	99.90
1964	315	9	5	12.80	334.40	-6.27	1	0.00000E+00	99.90
1964	316	21	54	11.10	336.00	-1.55	1	0.00000E+00	99.90
1964	317	13	38	13.80	314.00	-27.25	1	0.00000E+00	99.90
1964	318	8	5	11.50	333.70	-2.49	1	0.00000E+00	99.90
1964	319	1	10	14.20	313.70	-25.97	1	0.00000E+00	99.90
1964	319	17	50	12.30	331.10	-4.21	1	0.00000E+00	99.90
1964	320	9	8	12.50	308.20	-30.20	1	0.00000E+00	99.90
1964	321	6	30	10.50	332.70	0.00	1	0.00000E+00	99.90
1964	321	19	12	11.90	305.40	-31.33	1	0.00000E+00	99.90
1964	322	15	32	12.00	328.30	-3.34	1	0.00000E+00	99.90
1964	323	6	5	12.10	304.50	-30.73	1	0.00000E+00	99.90
1964	324	2	0	12.10	326.80	-3.79	1	0.00000E+00	99.90
1964	324	17	50	12.90	305.00	-28.65	1	0.00000E+00	99.90
1964	325	11	50	13.00	323.50	-5.74	1	0.00000E+00	99.90
1964	326	3	5	11.80	300.90	-31.04	1	0.00000E+00	99.90
1964	327	1	33	10.00	328.10	1.72	1	0.00000E+00	99.90
1964	327	14	3	12.10	300.00	-30.82	1	0.00000E+00	99.90
1964	328	12	54	9.20	327.90	4.35	1	0.00000E+00	99.90

1964	329	0	45	12.10	298.50	-30.22	1	0.00000E+00	99.90
1964	329	19	0	13.30	318.70	-6.49	1	0.00000E+00	99.90
1964	330	12	13	12.80	298.90	-28.99	1	0.00000E+00	99.90
1964	331	9	37	9.90	323.60	2.30	1	0.00000E+00	99.90
1964	331	22	2	12.10	295.60	-30.34	1	0.00000E+00	99.90
1964	332	20	56	9.20	323.40	4.34	1	0.00000E+00	99.90
1964	335	15	20	12.20	315.00	-2.82	1	0.00000E+00	99.90
1964	337	1	15	12.70	312.80	-4.06	1	0.00000E+00	99.90
1964	339	8	15	14.90	295.40	-22.90	1	0.00000E+00	99.90
1964	339	22	30	12.70	309.60	-4.05	1	0.00000E+00	99.90
1964	348	17	30	10.10	305.70	3.40	1	0.00000E+00	99.90
1965	149	20	53	16.30	105.50	-36.57	1	0.00000E+00	99.90
1965	161	14	38	17.60	95.30	-37.47	1	0.00000E+00	99.90
1965	166	11	42	20.20	119.10	-3.13	1	0.00000E+00	99.90
1965	167	4	52	10.30	76.30	-45.38	1	0.00000E+00	99.90
1965	173	3	20	15.80	81.50	-39.26	1	0.00000E+00	99.90
1965	178	2	0	19.90	109.10	-2.02	1	0.00000E+00	99.90
1965	179	0	10	17.10	77.10	-38.26	1	0.00000E+00	99.90
1965	183	17	50	22.50	102.30	-3.05	1	0.00000E+00	99.90
1965	184	17	50	15.90	69.90	-39.52	1	0.00000E+00	99.90
1965	189	19	30	17.60	100.20	2.61	1	0.00000E+00	99.90
1965	190	12	17	12.90	57.00	-44.75	1	0.00000E+00	99.90
1965	195	16	0	16.80	94.80	3.41	1	0.00000E+00	99.90
1965	196	6	25	10.70	46.70	-47.87	1	0.00000E+00	99.90
1965	201	13	34	15.40	89.60	5.23	1	0.00000E+00	99.90
1965	202	4	54	13.60	48.30	-44.18	1	0.00000E+00	4.45
1965	213	3	18	17.70	76.30	2.91	1	0.00000E+00	99.90
1965	213	18	45	10.80	32.10	-49.66	1	0.00000E+00	99.90
1965	219	14	0	9.80	20.20	-51.73	1	0.32534E-08	99.90
1965	224	22	25	14.10	67.70	8.96	1	0.00000E+00	99.90
1965	225	11	45	12.20	23.70	-48.00	1	0.00000E+00	99.90
1965	230	21	30	10.60	65.70	15.86	1	0.00000E+00	99.90
1965	231	5	55	8.40	4.90	-55.64	1	0.41346E-08	99.90
1965	236	16	15	12.70	57.80	12.28	1	0.00000E+00	99.90
1965	242	9	40	16.30	271.70	-52.20	1	0.00000E+00	99.90
1965	242	13	0	12.70	50.00	14.61	1	0.00000E+00	99.90
1965	242	23	45	9.70	0.00	-56.31	1	0.00000E+00	99.90
1965	248	8	30	11.70	45.00	17.39	1	0.22619E-08	99.90
1965	248	19	13	10.70	359.10	-54.52	1	0.20266E-08	99.90
1965	254	3	35	12.10	39.00	16.81	1	0.00000E+00	99.90
1965	254	14	48	10.90	355.50	-54.62	1	0.14942E-08	99.90
1965	259	23	55	11.30	33.50	19.59	1	0.24726E-08	99.90
1965	260	10	0	10.10	346.20	-57.30	1	0.25629E-08	99.90
1965	266	5	5	10.20	340.90	-57.39	1	0.00000E+00	99.90
1965	272	2	35	10.60	332.50	-59.26	1	0.16881E-08	99.90
1965	277	9	30	14.00	14.90	18.77	1	0.00000E+00	99.90
1965	277	23	15	11.70	331.00	-56.85	1	0.45769E-09	99.90
1965	283	7	42	11.60	11.00	25.03	1	0.15404E-08	99.90
1965	283	19	35	11.60	325.00	-58.35	1	0.00000E+00	99.90
1965	289	3	45	11.90	5.90	24.93	1	0.00000E+00	99.90
1965	289	17	0	13.10	323.00	-54.47	1	0.00000E+00	99.90
1965	294	22	41	12.80	358.50	23.55	1	0.00000E+00	99.90
1965	295	11	20	11.40	312.90	-59.07	1	0.14831E-08	99.90
1965	300	21	6	10.00	359.30	34.01	1	0.34926E-08	99.90
1965	301	7	43	11.20	299.40	-60.41	1	0.48097E-08	99.90
1965	306	16	5	12.10	349.80	27.48	1	0.12202E-08	99.90
1965	307	8	20	15.90	308.90	-51.04	1	0.00000E+00	99.90
1965	318	8	50	13.10	338.50	26.33	1	0.24681E-08	99.90
1965	319	0	0	13.70	289.60	-55.56	1	0.18560E-08	99.90

1965	324	6	45	11.70	333.20	31.87	1	0.23189E-08	99.90
1965	324	22	20	15.20	288.80	-53.86	1	0.00000E+00	99.90
1965	330	1	45	11.80	329.30	32.21	1	0.12100E-08	99.90
965	330	15	45	13.40	277.20	-57.65	1	0.22994E-08	99.90
1965	335	21	15	11.60	322.90	32.79	1	0.00000E+00	99.90
1965	336	12	15	14.40	274.30	-56.01	1	0.00000E+00	99.90
1965	347	11	12	12.70	311.30	30.39	1	0.18244E-08	99.90
1965	348	5	15	16.90	266.20	-51.17	1	0.00000E+00	99.90
1965	353	6	20	14.70	303.70	28.34	1	0.00000E+00	99.90
1965	354	3	0	17.20	259.10	-52.09	1	0.14819E-08	99.90
1965	359	4	36	11.30	303.00	38.44	1	0.32398E-08	99.90
1965	359	20	45	15.60	248.90	-55.20	1	0.00000E+00	99.90
1965	364	21	13	15.00	290.80	27.83	1	0.00000E+00	99.90
1965	365	21	0	19.70	251.80	-48.17	1	0.00000E+00	99.90
1966	5	15	30	16.70	283.30	24.09	1	0.00000E+00	99.90
1966	11	12	30	14.70	279.30	28.35	1	0.00000E+00	99.90
1966	17	8	5	15.30	274.30	28.84	1	0.00000E+00	99.90
1966	18	7	25	18.80	230.80	-50.89	1	0.00000E+00	99.90
1966	24	9	0	23.20	231.30	-44.04	1	0.20219E-08	99.90
1966	30	6	45	23.80	226.90	-43.12	1	0.16473E-08	99.90
1966	34	20	35	16.30	254.10	26.94	1	0.18908E-08	99.90
1966	36	12	15	29.40	225.30	-35.58	1	0.18592E-08	99.90
1966	40	15	10	18.20	244.80	23.63	1	0.15839E-08	99.90
1966	42	3	30	26.20	218.70	-39.85	1	0.00000E+00	99.90
1966	45	19	0	28.70	233.40	6.40	1	0.00000E+00	99.90
1966	48	4	57	29.90	215.20	-34.95	1	0.10475E-08	99.90
1966	51	19	0	26.00	228.30	10.63	1	0.00000E+00	99.90
1966	152	20	25	21.20	104.80	-48.32	1	0.00000E+00	99.90
1966	156	18	25	26.80	127.00	19.39	1	0.00000E+00	99.90
966	158	2	20	9.40	0.00	-70.80	1	0.20504E-08	99.90
1966	162	13	0	27.20	121.20	18.90	1	0.00000E+00	99.90
1966	164	3	30	15.40	77.70	-62.73	1	0.00000E+00	99.90
1966	168	15	25	23.00	118.70	27.45	1	0.00000E+00	99.90
1966	174	12	5	21.50	114.50	30.41	1	0.00000E+00	99.90
1966	181	10	40	11.50	11.30	-71.87	1	0.00000E+00	99.90
1966	186	8	0	19.30	107.10	37.68	1	0.00000E+00	-0.40
1966	187	6	40	11.40	4.90	-71.98	1	0.00000E+00	-1.06
1966	192	0	20	22.40	97.80	30.60	1	0.00000E+00	99.90
1966	194	6	14	12.90	-37.40	-19.85	7	0.00000E+00	1.50
1966	198	3	45	17.00	100.00	44.56	1	0.00000E+00	99.90
1966	198	23	45	11.50	355.20	-71.66	1	0.00000E+00	99.90
1966	203	20	20	19.70	88.50	36.74	1	0.00000E+00	-4.56
1966	209	19	50	16.40	89.50	46.48	1	0.00000E+00	99.90
1966	210	6	14	10.96	-43.97	-20.85	7	0.12949E-08	99.90
1966	210	15	57	12.10	355.50	-71.66	1	0.00000E+00	99.90
1966	215	14	5	18.00	80.00	42.29	1	0.00000E+00	99.90
1966	216	10	21	10.60	318.80	-72.48	1	0.18018E-08	99.90
1966	221	13	58	14.80	81.70	52.68	1	0.00000E+00	99.90
1966	227	10	42	14.30	77.50	54.42	1	0.00000E+00	99.90
1966	227	7	55	10.46	6.04	-2.19	7	0.00000E+00	99.90
1966	228	3	18	11.40	324.90	-73.15	1	0.00000E+00	99.90
1966	233	7	35	14.60	69.60	55.26	1	0.00000E+00	99.90
1966	234	2	0	12.40	345.60	-73.11	1	0.00000E+00	99.90
1966	239	2	40	14.10	65.80	57.56	1	0.10854E-08	99.90
966	239	21	20	13.20	350.80	-70.79	1	0.00000E+00	99.90
1966	244	21	58	13.90	59.90	58.93	1	0.00000E+00	99.90
1966	245	15	10	12.10	328.70	-74.23	1	0.00000E+00	99.90
1966	245	10	19	12.46	-46.21	-19.89	7	0.00000E+00	99.90
1966	250	18	0	13.10	58.40	62.24	1	0.00000E+00	99.90

1966	256	11	45	13.90	49.00	58.97	1	0.53473E-09	99.90
1966	257	5	10	12.20	321.10	-74.06	1	0.00000E+00	99.90
1966	263	3	48	12.20	321.10	-74.06	1	0.13282E-08	99.90
966	264	1	55	11.25	27.86	24.13	7	0.00000E+00	-2.90
1966	268	7	45	12.10	56.70	69.83	1	0.22551E-08	99.90
1966	274	2	45	13.90	36.50	63.36	1	0.71915E-09	99.90
1966	274	21	20	13.20	317.80	-70.94	1	0.00000E+00	99.90
1966	279	23	30	13.80	32.90	63.90	1	0.00000E+00	-0.50
1966	280	20	30	15.50	329.00	-63.11	1	0.00000E+00	1.91
1966	285	21	34	12.00	42.90	71.47	1	0.00000E+00	99.90
1966	286	14	40	13.70	315.00	-68.86	1	0.00000E+00	0.59
1966	292	10	41	12.90	295.90	-71.36	1	0.00000E+00	99.90
1966	298	7	45	13.00	292.30	-71.08	1	0.00000E+00	-0.16
1966	310	4	15	15.00	296.60	-63.41	1	0.00000E+00	99.90
1966	315	6	22	12.80	12.10	70.46	1	0.00000E+00	-0.17
1966	316	3	15	16.20	300.70	-57.85	1	0.00000E+00	-2.79
1966	321	3	0	11.20	39.60	74.56	1	0.14831E-08	99.90
1966	321	17	40	12.20	262.10	-72.60	1	0.21448E-08	-4.07
1966	326	22	35	11.20	36.50	75.17	1	0.10358E-08	1.20
1966	327	15	30	14.30	278.50	-64.81	1	0.00000E+00	99.90
1966	328	3	45	35.20	126.90	-21.18	1	0.17511E-08	-2.80
1966	329	18	58	9.49	-39.57	22.88	7	0.00000E+00	0.12
1966	332	17	45	11.50	22.50	74.21	1	0.00000E+00	-5.22
1966	333	12	25	15.40	278.20	-60.00	1	0.00000E+00	-3.31
1966	339	8	30	16.40	275.80	-56.86	1	0.00000E+00	1.36
1966	343	5	5	27.60	119.50	-22.85	1	0.00000E+00	-0.64
1966	344	11	0	11.30	29.70	73.37	1	0.11897E-08	99.90
1966	344	10	5	10.07	-39.46	23.66	7	0.11897E-08	99.90
1966	345	5	20	15.40	265.70	-59.03	1	0.17449E-08	99.90
966	350	3	30	13.90	336.40	67.90	1	0.00000E+00	-0.13
1966	351	2	40	17.00	264.90	-53.76	1	0.00000E+00	99.90
1966	355	23	0	14.40	327.10	66.59	1	0.00000E+00	99.90
1966	355	23	5	20.70	100.40	-9.72	1	0.00000E+00	99.90
1966	357	4	50	21.50	267.90	-40.64	1	0.00000E+00	1.49
1966	361	23	0	10.50	31.30	71.86	1	0.00000E+00	-2.03
1966	362	19	30	17.70	254.80	-51.22	1	0.00000E+00	0.77
1967	2	16	30	12.10	343.60	73.01	1	0.00000E+00	99.90
1967	3	16	15	18.90	252.30	-47.34	1	0.12445E-08	99.90
1967	6	7	12	10.36	-54.28	3.32	7	0.31271E-08	0.65
1967	9	10	8	17.00	239.90	-53.21	1	0.00000E+00	4.46
1967	14	8	25	12.80	324.80	71.02	1	0.78661E-09	-9.27
1967	15	12	0	21.10	242.80	-41.65	1	0.59150E-09	1.89
1967	18	5	30	14.50	74.30	4.75	1	0.00000E+00	-1.40
1967	20	20	15	10.90	169.00	-73.11	1	0.24900E-08	0.22
1967	21	11	25	22.90	239.40	-37.10	1	0.86570E-09	-5.08
1967	25	14	30	21.50	267.30	46.48	1	0.82839E-09	-1.32
1967	27	7	30	22.80	232.90	-37.58	1	0.12487E-08	4.71
1967	32	18	30	13.50	63.10	6.36	1	0.94614E-09	99.90
1967	33	7	50	24.90	230.90	-30.89	1	0.00000E+00	99.90
1967	33	10	42	13.60	280.50	-12.79	1	0.00000E+00	99.90
1967	39	2	0	24.60	224.60	-31.65	1	0.50028E-08	-2.64
1967	43	12	25	12.80	289.90	72.58	1	0.13440E-08	1.15
1967	45	7	10	13.70	54.00	22.81	1	0.00000E+00	99.90
1967	46	4	25	17.70	255.90	-25.43	1	0.12647E-08	99.90
1967	48	18	0	23.50	239.10	42.31	1	0.83620E-09	-0.81
1967	51	14	0	33.30	218.90	-11.26	1	0.16398E-08	0.39
1967	54	16	0	21.60	235.20	47.01	1	0.12626E-08	-8.26
1967	59	22	5	11.57	62.60	25.11	7	0.16915E-08	99.90
1967	60	19	0	19.40	242.60	-25.01	1	0.12806E-08	99.90

1967	74	13	15	17.60	95.20	18.57	1	0.98938E-09	99.90
1967	76	1	30	29.00	207.10	-34.26	1	0.00000E+00	99.90
1967	91	22	50	19.10	112.80	-4.19	1	0.00000E+00	99.90
967	93	17	30	36.80	204.80	-32.73	1	0.79501E-09	99.90
1967	124	9	15	12.70	55.80	10.46	1	0.13754E-08	99.90
1967	127	2	0	45.80	208.60	-23.30	1	0.28543E-08	99.90
1967	139	3	22	11.55	57.12	0.00	7	0.00000E+00	99.90
1967	144	20	15	12.30	105.60	-32.04	1	0.00000E+00	99.90
1967	149	7	0	16.20	101.90	-26.39	1	0.00000E+00	99.90
1967	153	18	40	19.90	97.50	-22.11	1	0.00000E+00	99.90
1967	157	3	47	16.80	93.60	15.92	1	0.00000E+00	99.90
1967	157	23	15	17.00	93.00	-25.48	1	0.00000E+00	99.90
1967	161	11	22	17.50	88.60	15.54	1	0.00000E+00	99.90
1967	162	7	45	18.00	89.00	-24.28	1	0.00000E+00	99.90
1967	165	20	50	14.90	84.70	18.85	1	0.31843E-08	99.90
1967	166	13	54	16.40	85.70	-26.50	1	0.00000E+00	99.90
1967	170	4	45	14.30	81.40	20.02	1	0.00000E+00	99.90
1967	170	19	30	13.90	80.90	-29.79	1	0.19483E-08	99.90
1967	174	11	5	15.60	77.20	17.89	1	0.00000E+00	99.90
1967	175	4	0	15.30	76.70	-28.14	1	0.00000E+00	99.90
1967	178	19	43	14.80	72.90	19.40	1	0.00000E+00	99.90
1967	179	14	0	17.60	72.80	-25.24	1	0.00000E+00	99.90
1967	183	5	0	12.70	68.50	22.69	1	0.00000E+00	99.90
1967	183	19	40	15.40	68.50	-27.81	1	0.00000E+00	99.90
1967	187	6	50	19.10	64.80	13.92	1	0.00000E+00	99.90
1967	188	1	5	12.80	64.90	-32.13	1	0.00000E+00	99.90
1967	191	22	33	8.90	58.40	31.08	1	0.00000E+00	99.90
1967	192	7	0	10.60	61.90	-36.54	1	0.00000E+00	99.90
1967	196	4	5	13.30	56.30	22.59	1	0.00000E+00	99.90
967	196	15	47	10.90	56.10	-36.05	1	0.00000E+00	99.90
1967	200	10	2	15.40	51.70	19.35	1	0.00000E+00	99.90
1967	201	1	15	13.30	52.50	-31.68	1	0.00000E+00	99.90
1967	204	21	0	11.60	46.90	26.12	1	0.00000E+00	99.90
1967	205	8	29	12.50	46.90	-33.56	1	0.00000E+00	99.90
1967	209	4	30	12.20	39.90	24.73	1	0.00000E+00	99.90
1967	209	14	34	9.40	43.90	-39.75	1	0.38302E-08	-2.04
1967	214	0	45	13.00	40.50	-32.66	1	0.75551E-09	3.55
1967	218	7	15	11.10	34.90	-36.54	1	0.12763E-08	-2.20
1967	222	5	31	11.70	26.10	26.86	1	0.00000E+00	99.90
1967	222	18	0	13.50	32.90	-31.85	1	0.10306E-08	99.90
1967	226	13	25	11.30	24.80	27.87	1	0.00000E+00	99.90
1967	227	0	36	12.00	26.30	-34.41	1	0.00000E+00	99.90
1967	230	22	30	9.50	16.60	32.40	1	0.00000E+00	99.90
1967	231	7	30	10.60	26.30	-37.86	1	0.00000E+00	99.90
1967	235	4	55	11.90	15.90	26.99	1	0.00000E+00	99.90
1967	235	16	35	12.00	20.60	-34.38	1	0.00000E+00	99.90
1967	237	10	5	9.55	-37.30	14.56	7	0.14882E-08	-2.17
1967	239	13	45	10.70	11.20	29.74	1	0.87321E-09	2.60
1967	240	0	55	12.70	16.40	-33.36	1	0.70806E-09	-0.34
1967	243	22	0	10.10	6.70	31.77	1	0.13791E-08	-2.11
1967	244	5	7	7.20	14.60	-48.64	1	0.15568E-08	-4.32
1967	248	16	35	12.10	9.30	-34.79	1	0.65653E-09	99.90
1967	251	12	14	10.81	-75.53	-2.17	7	0.24484E-08	-1.37
1967	252	13	0	11.40	358.30	29.48	1	0.78104E-09	-1.90
1967	252	23	10	10.60	4.80	-37.64	1	0.67295E-09	-4.78
1967	256	21	24	10.20	353.40	31.95	1	0.91980E-09	-1.23
1967	257	6	18	9.80	1.50	-40.02	1	0.74548E-09	2.76
1967	261	4	50	11.00	349.60	30.64	1	0.19531E-08	6.04
1967	261	14	20	10.00	357.80	-39.27	1	0.00000E+00	1.24

1967	265	12	8	11.60	345.70	29.40	1	0.00000E+00	99.90
1967	265	22	50	11.00	352.10	-36.93	1	0.10188E-08	99.90
1967	269	20	34	10.60	342.00	31.76	1	0.81333E-09	-0.27
1967	270	7	0	11.70	347.30	-35.50	1	0.64145E-09	0.25
1967	274	2	35	12.80	337.30	27.00	1	0.75573E-09	-0.24
1967	274	14	50	11.90	344.00	-34.81	1	0.12995E-08	1.54
1967	278	12	30	10.80	334.00	32.44	1	0.91759E-09	-0.36
1967	278	23	15	11.80	338.00	-35.31	1	0.10075E-08	0.65
1967	282	22	0	8.30	328.60	39.95	1	0.16305E-08	-4.50
1967	285	0	15	47.20	155.50	-30.44	1	0.16554E-08	-2.29
1967	287	3	22	12.30	326.00	29.20	1	0.00000E+00	99.90
1967	287	16	30	12.90	328.70	-33.39	1	0.00000E+00	99.90
1967	291	11	45	12.50	321.70	28.69	1	0.00000E+00	1.10
1967	291	23	0	11.50	324.20	-36.35	1	0.00000E+00	0.70
1967	295	20	50	10.20	317.40	34.55	1	0.20256E-08	0.25
1967	296	6	10	10.50	316.90	-37.47	1	0.16004E-08	-0.58
1967	300	14	15	10.70	315.50	-38.11	1	0.15007E-08	1.33
1967	304	14	46	8.30	308.50	40.77	1	0.50502E-08	6.58
1967	304	23	25	11.10	310.50	-36.44	1	0.13591E-08	5.27
1967	305	16	0	37.70	153.40	-29.94	1	0.15895E-08	3.90
1967	307	14	0	21.00	240.60	9.03	1	0.29498E-08	-3.38
1967	308	19	55	11.80	305.30	31.69	1	0.16512E-08	1.61
1967	309	6	23	10.20	305.70	-39.51	1	0.15527E-08	-4.47
1967	313	2	35	13.50	300.50	28.41	1	0.21475E-08	3.54
1967	313	16	0	12.70	301.10	-33.36	1	0.12850E-08	-0.24
1967	317	11	15	12.40	296.80	30.62	1	0.00000E+00	-0.13
1967	317	22	45	11.10	297.40	-36.97	1	0.00000E+00	-0.87
1967	322	9	40	15.10	291.70	-28.87	1	0.00000E+00	-0.22
1967	325	1	0	33.00	140.10	-30.18	1	0.12991E-08	0.45
1967	326	3	40	10.70	288.40	34.12	1	0.52371E-08	99.90
1967	326	15	22	13.00	287.10	-33.12	1	0.22106E-08	99.90
1967	330	6	40	16.90	283.40	23.03	1	0.79146E-09	0.01
1967	331	0	30	14.30	283.70	-30.80	1	0.81282E-09	3.82
1967	334	19	30	10.40	280.20	35.43	1	0.22299E-08	-5.15
1967	335	6	50	12.80	278.10	-33.18	1	0.18850E-08	-3.77
1967	338	23	0	15.40	275.30	25.30	1	0.17282E-08	-1.02
1967	339	12	55	10.80	274.00	-38.18	1	0.24240E-08	-0.04
1967	343	2	45	19.30	271.30	19.65	1	0.78590E-09	2.77
1967	343	18	10	26.20	125.00	-25.50	1	0.13015E-08	99.90
1967	345	6	45	18.30	268.50	30.20	1	0.00000E+00	99.90
1967	347	14	32	15.30	267.10	25.53	1	0.00000E+00	2.72
1967	362	16	10	23.60	113.20	-22.15	1	0.96194E-09	99.90
1967	363	22	30	16.90	247.30	29.37	1	0.13636E-08	4.33
1968	16	7	50	20.70	101.80	-18.34	1	0.00000E+00	99.90
1968	34	1	10	18.00	89.00	-7.68	1	0.82538E-09	-2.18
1968	52	1	30	16.40	87.90	3.49	1	0.00000E+00	-1.21
1968	67	12	44	14.50	297.10	51.10	13	0.85967E-09	-0.67
1968	70	0	47	11.90	287.00	52.60	13	0.23467E-08	2.93
1968	70	5	20	15.50	102.50	17.32	1	0.20858E-08	-5.19
1968	72	14	32	11.00	281.20	53.20	13	0.29340E-08	-3.04
1968	75	4	18	10.10	274.70	53.70	13	0.31449E-08	1.17
1968	77	21	44	13.50	284.40	51.60	13	0.12084E-08	0.56
1968	80	10	39	12.00	276.80	52.60	13	0.91326E-09	-1.91
1968	83	3	33	14.70	282.10	51.10	13	0.48104E-09	-0.01
1968	85	16	38	13.30	275.60	52.00	13	0.92788E-09	-1.56
1968	88	0	15	15.90	86.20	19.42	1	0.12532E-08	2.88
1968	88	7	21	13.60	273.70	51.90	13	0.10382E-08	-3.21
1968	88	9	40	15.90	279.50	50.40	13	0.87926E-09	99.90
1968	89	21	30	34.80	223.70	-4.77	1	0.14242E-08	-2.73

1968	90	20	42	12.40	267.50	52.50	13	0.15382E-08	-1.75
1968	90	22	32	14.40	273.30	51.30	13	0.15576E-08	2.64
1968	93	12	56	14.40	270.80	51.20	13	0.62139E-09	-0.53
1968	93	13	57	15.40	273.30	50.60	13	0.65674E-09	-1.77
1968	103	21	13	12.90	256.00	52.30	13	0.18846E-08	0.62
1968	105	15	10	15.60	81.20	22.66	1	0.14507E-08	99.90
1968	106	13	35	14.90	259.20	50.80	13	0.00000E+00	99.90
1968	107	22	15	41.00	214.50	-9.41	1	0.14358E-08	99.90
1968	109	4	50	15.70	258.70	50.30	13	0.93211E-09	-0.08
1968	111	21	40	17.60	260.70	48.80	13	0.61378E-09	1.40
1968	114	9	2	15.10	252.10	50.80	13	0.16299E-08	-0.60
1968	114	10	1	16.00	254.30	50.20	13	0.20170E-08	0.01
1968	119	18	3	18.40	254.70	48.10	13	0.69571E-09	0.57
1968	119	19	19	19.20	256.50	47.40	13	0.00000E+00	1.25
1968	122	8	10	18.20	251.90	48.30	13	0.96323E-09	1.30
1968	124	15	50	18.20	102.90	20.89	1	0.16613E-08	1.26
1968	124	20	30	16.70	246.00	49.60	13	0.18289E-08	2.90
1968	127	10	33	16.40	242.80	49.80	13	0.24477E-08	1.66
1968	156	12	45	18.20	92.00	-21.32	1	0.87495E-09	-0.08
1968	160	2	52	13.40	89.00	34.99	1	0.00000E+00	5.12
1968	160	16	30	12.80	87.40	-30.55	1	0.00000E+00	-2.36
1968	162	12	58	17.82	103.23	0.00	7	0.00000E+00	-2.65
1968	164	9	30	14.50	85.80	32.52	1	0.00000E+00	99.90
1968	165	1	50	14.70	83.40	-26.76	1	0.00000E+00	99.90
1968	168	15	4	16.90	81.10	28.56	1	0.10409E-08	-2.55
1968	169	7	0	11.50	79.30	-33.09	1	0.27176E-08	-6.71
1968	173	0	43	14.90	77.20	32.06	1	0.00000E+00	4.18
1968	173	19	58	17.50	75.00	-22.10	1	0.92194E-09	2.47
1968	177	7	27	15.90	72.60	30.23	1	0.56294E-09	-0.88
1968	177	23	22	12.80	70.90	-30.57	1	0.13812E-08	-4.18
1968	181	16	40	14.30	69.00	33.03	1	0.10010E-08	-2.95
1968	182	7	50	13.80	68.10	-29.03	1	0.11158E-08	-0.27
1968	186	1	25	14.00	64.30	34.40	1	0.00000E+00	-1.68
1968	186	16	30	14.00	63.20	-27.24	1	0.00000E+00	0.58
1968	190	10	18	12.30	60.50	37.54	1	0.00000E+00	99.90
1968	191	0	0	13.70	59.20	-28.23	1	0.00000E+00	99.90
1968	194	16	57	13.80	55.80	34.45	1	0.00000E+00	99.90
1968	195	9	28	15.50	55.40	-24.76	1	0.00000E+00	4.03
1968	198	19	55	13.14	55.10	7.65	7	0.00000E+00	-1.20
1968	199	1	15	13.40	51.30	35.62	1	0.00000E+00	0.11
1968	199	16	50	14.80	51.40	-26.04	1	0.00000E+00	2.35
1968	203	10	14	12.00	47.20	38.55	1	0.00000E+00	2.85
1968	203	21	40	11.20	47.20	-33.78	1	0.00000E+00	-3.19
1968	207	18	39	10.90	43.00	41.26	1	0.00000E+00	6.11
1968	208	5	50	11.70	43.00	-31.86	1	0.00000E+00	0.71
1968	212	1	20	13.40	37.90	35.58	1	0.00000E+00	-0.51
1968	212	14	20	11.80	40.20	-31.60	1	0.00000E+00	99.90
1968	215	11	31	11.99	21.89	15.97	7	0.00000E+00	-1.45
1968	216	21	6	10.60	35.70	-34.46	1	0.00000E+00	-0.01
1968	220	18	34	11.00	28.70	40.86	1	0.00000E+00	99.90
1968	221	4	40	10.30	32.40	-35.06	1	0.00000E+00	99.90
1968	225	2	20	11.20	24.40	41.18	1	0.00000E+00	99.90
1968	225	13	40	11.80	28.30	-31.10	1	0.00000E+00	99.90
1968	229	10	54	10.10	19.90	43.65	1	0.00000E+00	0.66
1968	229	20	7	10.00	24.00	-35.60	1	0.00000E+00	-0.21
1968	233	18	0	10.90	15.60	41.28	1	0.90975E-09	0.96
1968	234	4	19	10.90	20.00	-33.55	1	0.11819E-08	-1.28
1968	238	1	21	11.60	11.10	40.23	1	0.00000E+00	0.07
1968	238	15	5	14.40	16.10	-25.12	1	0.00000E+00	1.70

1968	242	8	50	12.50	7.60	38.19	1	0.00000E+00	99.90
1968	242	21	15	12.20	11.40	-29.49	1	0.00000E+00	99.90
1968	246	18	55	9.00	1.90	47.24	1	0.00000E+00	99.90
1968	247	2	0	7.80	9.00	-42.57	1	0.00000E+00	99.90
1968	251	2	10	10.10	357.60	43.77	1	0.18566E-08	99.90
1968	251	11	45	10.80	3.80	-32.01	1	0.18049E-08	99.90
1968	255	8	58	11.60	354.80	40.32	1	0.90425E-09	-1.91
1968	255	21	25	13.10	359.00	-26.76	1	0.88387E-09	2.65
1968	259	18	17	9.30	350.10	46.33	1	0.00000E+00	-1.44
1968	260	2	50	9.30	354.90	-33.07	1	0.00000E+00	-0.96
1968	264	0	25	11.60	345.70	39.82	1	0.00000E+00	-0.99
1968	264	11	51	11.60	350.80	-30.04	1	0.00000E+00	2.20
1968	268	8	15	12.70	342.60	37.79	1	0.00000E+00	99.90
1968	268	22	45	14.50	345.20	-23.14	1	0.00000E+00	0.97
1968	272	19	10	8.20	337.40	50.46	1	0.00000E+00	0.23
1968	273	3	20	10.30	342.00	-32.22	1	0.00000E+00	99.90
1968	277	2	0	10.10	333.40	44.78	1	0.00000E+00	99.90
1968	277	12	58	12.60	337.10	-26.78	1	0.00000E+00	99.90
1968	281	7	35	13.50	330.40	36.21	1	0.00000E+00	99.90
1968	281	18	50	9.10	333.40	-35.69	1	0.00000E+00	99.90
1968	285	18	40	9.00	325.80	47.51	1	0.00000E+00	99.90
1968	289	23	25	13.20	321.90	37.19	1	0.00000E+00	1.58
1968	290	12	29	12.40	323.40	-26.81	1	0.00000E+00	-1.12
1968	294	9	46	11.00	317.00	41.65	1	0.00000E+00	0.66
1968	294	21	45	12.90	319.10	-24.65	1	0.00000E+00	1.73
1968	298	18	30	9.20	313.70	46.47	1	0.00000E+00	-1.86
1968	303	1	12	10.90	308.90	42.89	1	0.00000E+00	-1.83
1968	303	9	8	7.30	309.80	-41.28	1	0.00000E+00	8.40
1968	307	9	50	9.60	305.30	45.66	1	0.00000E+00	-1.27
1968	307	18	43	10.40	303.70	-29.98	1	0.00000E+00	4.60
1968	311	15	45	12.20	302.00	39.22	1	0.00000E+00	0.40
1968	312	3	20	11.50	300.60	-27.41	1	0.00000E+00	-2.01
1968	316	0	0	11.20	297.50	41.20	1	0.00000E+00	99.90
1968	316	11	30	12.30	296.30	-26.05	1	0.00000E+00	99.90
1968	320	7	20	12.00	291.60	39.78	1	0.00000E+00	99.90
1968	320	20	5	13.30	292.20	-23.48	1	0.00000E+00	99.90
1968	324	14	0	13.40	288.90	36.57	1	0.00000E+00	99.90
1968	325	5	45	15.50	286.70	-19.24	1	0.00000E+00	99.90
1968	328	20	0	15.20	284.60	33.46	1	0.10372E-08	99.90
1968	329	10	30	12.30	281.40	-25.06	1	0.00000E+00	99.90
1968	333	4	50	14.00	280.10	35.45	1	0.00000E+00	99.90
1968	333	19	15	13.40	277.90	-22.89	1	0.00000E+00	99.90
1968	337	13	50	12.40	84.10	38.30	1	0.00000E+00	2.41
1968	338	2	28	12.80	272.90	-23.93	1	0.00000E+00	1.15
1968	341	17	37	16.80	271.60	30.84	1	0.00000E+00	2.08
1968	342	14	5	17.30	269.00	-16.76	1	0.00000E+00	2.00
1968	350	9	55	16.50	262.70	31.35	1	0.00000E+00	1.58
1968	351	8	30	19.60	260.00	-12.98	1	0.46019E-09	-1.12
1968	353	12	20	10.50	356.80	59.20	13	0.19661E-08	0.08
1968	354	18	20	15.40	258.40	32.94	1	0.00000E+00	2.09
1968	355	14	5	17.80	255.50	-15.64	1	0.10621E-08	2.02
1968	356	4	42	12.80	5.90	56.60	13	0.14782E-08	1.87
1968	358	16	24	9.40	344.10	60.60	13	0.91206E-09	-0.14
1968	359	0	0	17.90	253.50	29.53	1	0.81380E-09	99.90
1968	359	23	10	19.00	251.70	-14.01	1	0.23638E-08	-2.35
1968	361	9	19	12.50	358.80	57.30	13	0.14400E-08	3.23
1968	363	8	30	17.30	249.10	30.61	1	0.13408E-08	2.01
1968	363	23	6	11.70	352.70	58.30	13	0.00000E+00	0.73
1968	364	8	5	19.90	247.30	-12.77	1	0.00000E+00	99.90

1968	366	12	36	10.60	343.90	59.70	13	0.13908E-08	3.96
1969	1	10	0	22.60	244.80	23.76	1	0.51955E-09	-1.55
1969	3	5	13	13.10	353.70	56.60	13	0.92322E-09	99.90
969	5	19	10	12.60	349.00	57.40	13	0.50686E-09	2.05
1969	8	8	53	11.70	342.20	58.70	13	0.10861E-08	0.66
1969	11	2	21	14.80	352.00	54.40	13	0.00000E+00	1.98
1969	13	14	1	12.00	338.00	58.40	13	0.00000E+00	1.56
1969	16	3	50	11.30	331.90	59.30	13	0.15586E-08	2.65
1969	18	17	1	9.70	318.70	61.40	13	0.15033E-08	-0.41
1969	21	9	36	12.20	331.00	58.50	13	0.48826E-09	-0.40
1969	21	10	48	13.50	336.70	56.60	13	0.00000E+00	99.90
1969	23	23	15	11.30	323.40	59.70	13	0.16646E-08	5.68
1969	26	11	13	8.10	295.00	62.60	13	0.31470E-08	3.50
1969	26	13	3	10.60	316.00	60.70	13	0.22922E-08	1.62
1969	29	8	18	15.40	335.60	53.80	13	0.29529E-09	0.86
1969	29	9	31	16.40	338.50	52.30	13	0.28375E-09	-0.16
1969	31	17	7	9.50	303.00	62.10	13	0.58293E-09	0.79
1969	31	21	8	14.00	328.10	56.00	13	0.65482E-09	0.56
1969	34	7	43	9.70	301.00	62.00	13	0.50655E-08	-1.14
1969	37	0	46	12.70	317.20	58.10	13	0.14479E-08	99.90
1969	39	13	58	11.30	307.00	60.10	13	0.16128E-08	4.86
1969	44	20	8	12.80	309.40	58.10	13	0.99790E-09	-2.19
1969	44	22	39	15.20	318.50	54.50	13	0.10205E-08	0.96
1969	47	10	30	12.70	305.90	58.50	13	0.10594E-08	0.02
1969	50	1	24	13.10	304.90	57.90	13	0.12453E-08	-3.13
1969	52	15	28	12.80	300.50	58.40	13	0.64352E-09	2.00
1969	52	16	35	13.80	305.30	56.80	13	0.64352E-09	-0.11
1969	55	4	43	11.50	290.80	60.30	13	0.15036E-08	-0.21
1969	57	19	20	11.70	289.40	60.20	13	0.14355E-08	3.87
969	60	12	55	14.70	300.90	55.50	13	0.22112E-09	99.90
1969	63	5	30	16.40	303.90	52.70	13	0.30011E-09	99.90
1969	65	15	27	12.50	285.50	59.00	13	0.11411E-08	99.90
1969	68	7	43	14.30	290.80	56.20	13	0.00000E+00	-0.30
1969	73	12	40	14.40	285.90	56.30	13	0.15503E-08	1.31
1969	75	23	50	11.00	265.00	61.40	13	0.22633E-08	-3.63
1969	78	16	58	13.80	277.80	57.30	13	0.12385E-08	5.56
1969	81	7	41	14.10	276.30	56.70	13	0.00000E+00	99.90
1969	83	23	54	15.60	279.60	54.30	13	0.00000E+00	12.17
1969	84	2	44	17.60	285.80	50.80	13	0.14338E-08	10.32
1969	89	3	44	14.70	271.10	55.80	13	0.00000E+00	-0.66
1969	91	17	1	13.70	263.90	57.60	13	0.92815E-09	99.90
1969	91	18	9	14.70	268.20	55.90	13	0.11029E-08	99.90
1969	94	11	6	16.70	272.30	52.50	13	0.46153E-09	-2.04
1969	96	21	43	13.60	257.90	57.70	13	0.10688E-08	-3.30
1969	96	22	45	14.20	261.00	56.10	13	0.10524E-08	-2.93
1969	99	14	41	15.80	264.20	54.10	13	0.86768E-09	-4.89
1969	104	19	1	15.30	257.00	55.10	13	0.96553E-09	-0.40
1969	107	10	6	15.90	256.30	54.20	13	0.27582E-09	0.08
1971	314	15	0	29.40	134.20	9.40	9	0.00000E+00	1.52
1971	315	2	50	31.80	139.70	10.60	9	0.00000E+00	-7.19
1971	322	1	20	17.20	115.00	35.20	9	0.00000E+00	99.90
1971	322	4	10	19.50	116.40	24.90	9	0.00000E+00	99.90
1971	322	9	5	23.10	119.00	9.40	9	0.00000E+00	99.90
1971	322	10	30	24.00	120.00	8.20	9	0.00000E+00	99.90
1971	322	15	15	26.50	123.80	13.30	9	0.00000E+00	99.90
1971	322	21	50	29.20	129.80	22.50	9	0.00000E+00	99.90
1971	323	15	50	32.00	133.40	4.90	9	0.00000E+00	-0.78
1971	326	12	35	23.00	115.40	11.50	9	0.00000E+00	99.90
1971	326	4	59	17.20	109.00	25.00	2	0.00000E+00	4.55

1971	328	0	35	31.70	132.00	12.00	9	0.00000E+00	99.90
1971	328	1	35	31.60	132.00	10.60	9	0.00000E+00	99.90
1971	328	14	40	28.70	135.80	-5.60	9	0.00000E+00	-1.17
1971	330	10	55	19.40	107.50	14.20	9	0.00000E+00	99.90
1971	330	12	45	20.80	109.40	15.10	9	0.00000E+00	99.90
1971	330	14	5	21.70	110.80	16.70	9	0.00000E+00	99.90
1971	332	0	55	32.00	127.10	14.30	9	0.00000E+00	99.90
1971	332	4	10	31.80	127.00	5.90	9	0.00000E+00	99.90
1971	332	12	55	30.40	129.90	-6.30	9	0.00000E+00	99.90
1971	334	18	50	22.10	110.10	31.10	9	0.00000E+00	-0.96
1971	335	1	40	26.00	114.40	27.00	9	0.00000E+00	-1.30
1971	335	3	40	26.90	114.20	20.50	9	0.00000E+00	99.90
1971	336	17	45	30.00	126.20	4.40	9	0.00000E+00	99.90
1971	338	16	0	17.10	98.10	30.50	9	0.00000E+00	1.08
1971	350	19	59	9.00	54.00	58.00	2	0.00000E+00	99.90
1971	353	21	10	24.40	114.70	8.60	9	0.00000E+00	99.90
1971	358	3	10	22.80	111.10	3.00	9	0.00000E+00	-2.83
1971	362	5	20	23.90	106.00	-1.00	2	0.00000E+00	-1.19
1972	1	14	15	19.90	105.70	-10.10	9	0.00000E+00	-0.52
1972	5	17	40	20.00	102.00	0.00	2	0.00000E+00	1.13
1972	9	22	35	19.10	97.80	11.20	9	0.00000E+00	99.90
1972	10	16	20	9.00	22.00	58.00	2	0.00000E+00	-6.97
1972	18	10	0	14.90	93.90	-17.80	9	0.00000E+00	99.90
1972	35	0	55	14.00	78.00	8.00	2	0.00000E+00	-0.38
1972	59	22	0	14.00	55.00	3.00	2	0.00000E+00	-0.57
1972	64	16	40	11.00	328.00	44.00	2	0.00000E+00	-0.46
1972	68	16	20	13.50	48.00	-10.00	2	0.00000E+00	99.90
1972	84	22	5	11.20	39.00	-9.00	2	0.00000E+00	1.35
1972	89	14	5	10.00	310.00	44.00	2	0.00000E+00	99.90
1972	105	16	45	12.70	19.00	-23.00	2	0.00000E+00	3.05
1972	122	8	55	10.00	6.00	-38.00	2	0.00000E+00	4.34
1972	126	23	45	11.00	284.00	24.00	2	0.00000E+00	2.98
1972	130	13	35	14.20	16.30	75.00	7	0.00000E+00	99.90
1972	130	14	30	11.70	353.00	-34.00	2	0.00000E+00	99.90
1972	143	2	5	10.90	354.00	-40.00	2	0.00000E+00	-2.83
1972	168	17	5	17.70	-91.80	29.90	9	0.00000E+00	99.90
1972	172	2	10	12.00	314.00	-39.00	2	0.00000E+00	-4.63
1972	172	22	15	18.30	-94.40	23.00	9	0.00000E+00	0.72
1972	176	23	15	15.90	-101.70	29.40	9	0.00000E+00	0.82
1972	177	1	55	18.50	-98.20	29.40	9	0.00000E+00	99.90
1972	181	6	10	19.10	-103.50	41.90	9	0.00000E+00	0.53
1972	185	5	5	15.30	-114.60	46.90	9	0.00000E+00	0.41
1972	193	15	5	17.60	-123.10	49.30	9	0.00000E+00	1.84
1972	197	19	50	18.80	-118.10	34.40	9	0.00000E+00	99.90
1972	209	6	15	15.80	-92.00	-6.40	9	0.00000E+00	1.03
1972	210	19	30	26.50	-122.50	26.60	9	0.00000E+00	99.90
1972	213	11	15	14.60	-94.60	-0.40	9	0.00000E+00	1.43
1972	223	16	5	29.70	-135.00	30.20	9	0.00000E+00	2.22
1972	225	10	40	23.20	-116.90	15.50	9	0.00000E+00	0.64
1972	227	12	50	27.80	-147.90	37.60	9	0.00000E+00	99.90
1972	229	16	15	22.20	-118.80	5.10	9	0.00000E+00	-0.40
1972	232	1	25	30.20	-139.00	21.00	9	0.00000E+00	-1.92
1972	233	21	0	21.20	-121.60	-8.00	9	0.00000E+00	-3.11
1972	240	0	5	28.10	-150.20	23.90	9	0.00000E+00	2.90
1972	257	18	30	30.60	-156.70	8.70	9	0.00000E+00	-22.74
1972	257	19	30	30.50	-156.00	7.30	9	0.00000E+00	-12.28
1972	305	16	55	17.50	132.40	22.10	9	0.38608E-08	2.30
1972	305	23	45	22.30	141.70	21.00	9	0.15572E-07	10.20
1972	306	18	40	30.00	149.90	4.90	9	0.53454E-08	99.90

1972	306	21	10	30.40	151.10	5.80	9	0.53454E-08	13.49
1972	327	6	5	28.10	127.20	-0.50	9	0.00000E+00	99.90
1972	327	12	30	29.90	130.10	-7.40	9	0.00000E+00	99.90
)72	334	20	5	19.10	111.00	30.20	9	0.13110E-08	-0.73
1972	336	7	5	31.10	125.80	-11.20	9	0.19487E-08	-2.10
1972	336	8	55	31.10	127.00	-15.00	9	0.19487E-08	-0.06
1972	336	10	10	31.10	127.40	-15.90	9	0.13082E-08	0.07
1972	336	11	55	30.90	127.90	-15.70	9	0.13082E-08	-1.61
1972	336	18	30	30.10	128.10	-5.30	9	0.00000E+00	-2.79
1972	337	3	50	27.50	131.90	-14.90	9	0.30113E-08	-1.72
1972	337	7	20	26.10	136.30	-24.90	9	0.43787E-08	-2.87
1972	339	0	50	20.10	108.20	30.50	9	0.00000E+00	99.90
1972	340	3	20	30.50	118.90	4.20	9	0.00000E+00	-0.83
1972	340	6	55	30.90	120.20	-8.70	9	0.00000E+00	0.99
1972	341	13	5	25.10	132.80	-26.30	9	0.28770E-08	0.98
1972	342	22	10	14.40	94.60	45.50	9	0.36857E-08	7.15
1972	342	20	15	9.70	13.80	26.00	7	0.55032E-08	7.80
1972	342	23	55	16.30	98.40	40.60	9	0.36857E-08	7.49
1972	343	3	0	18.10	100.90	33.60	9	0.31618E-08	-0.46
1972	345	9	20	28.00	124.70	-23.20	9	0.13720E-08	2.08
1972	353	23	35	25.10	115.70	-4.10	9	0.00000E+00	99.90
1972	354	0	25	24.70	116.10	-5.90	9	0.00000E+00	99.90
1972	358	7	35	22.60	116.10	-26.40	9	0.00000E+00	4.06
1972	362	9	40	23.40	110.60	-26.70	9	0.00000E+00	2.17
1973	5	2	0	16.60	107.10	-15.10	9	0.56304E-08	-4.88
1973	9	3	30	18.20	101.30	-14.40	9	0.00000E+00	99.90
1973	13	10	10	16.30	101.30	-33.50	9	0.00000E+00	0.09
1973	17	11	45	17.50	95.00	-28.60	9	0.19123E-08	2.51
1973	22	10	6	11.30	39.00	46.00	2	0.00000E+00	-0.68
973	42	13	30	12.50	80.00	-29.00	2	0.28176E-08	2.96
1973	50	22	0	11.60	73.00	-11.00	2	0.00000E+00	-2.57
1973	67	13	10	11.00	63.00	-32.00	2	0.24038E-08	-0.18
1973	84	4	2	10.00	55.00	-28.00	2	0.29604E-08	-1.84
1973	85	17	25	14.30	268.80	28.00	7	0.25877E-08	-2.89
1973	90	22	30	13.60	265.00	19.00	7	0.57008E-08	7.16
1973	101	4	30	8.80	302.00	31.00	2	0.00000E+00	99.90
1973	104	21	14	11.50	40.00	-27.00	2	0.35337E-08	6.85
1973	121	12	50	11.00	11.00	-44.00	2	0.00000E+00	99.90
1973	138	3	47	10.10	22.50	53.00	7	0.00000E+00	99.90
1973	153	15	53	7.20	19.50	33.00	7	0.60947E-08	-1.45
1973	158	23	45	12.10	357.00	52.00	7	0.84865E-09	99.90
1973	167	4	2	11.30	327.00	-47.00	2	0.27072E-08	1.38
1973	169	6	56	9.10	12.50	40.00	7	0.62880E-08	7.66
1973	184	12	10	17.40	-106.30	40.60	9	0.22863E-08	-2.56
1973	184	21	18	10.00	346.50	42.00	7	0.13954E-08	99.90
1973	188	15	55	17.80	-108.30	31.70	9	0.00000E+00	-0.25
1973	192	18	45	17.00	-112.20	25.70	9	0.32249E-08	0.01
1973	195	5	55	9.00	354.00	42.00	7	0.23267E-08	-0.04
1973	196	22	45	17.50	-114.90	21.00	9	0.35848E-08	0.01
1973	201	1	55	17.40	-120.00	26.70	9	0.00000E+00	-2.42
1973	201	3	10	18.30	-119.60	27.50	9	0.00000E+00	-1.18
1973	205	10	5	20.70	-126.60	38.60	9	0.20701E-08	99.90
1973	205	12	0	22.10	-124.30	36.80	9	0.20701E-08	99.90
1973	209	13	55	21.20	-129.70	35.30	9	0.37291E-08	99.90
1973	209	17	5	23.10	-123.70	24.90	9	0.37026E-08	-1.83
1973	212	15	0	15.40	-91.00	-14.30	9	0.00000E+00	-2.50
1973	213	21	40	23.90	-124.70	13.40	9	0.00000E+00	0.63
1973	231	0	40	29.50	-135.80	10.00	9	0.19240E-08	-4.14
1973	233	8	10	16.30	-109.00	-6.00	9	0.36697E-08	-0.25

1973	234	23	15	27.70-141.80	11.60	9	0.34306E-08	-4.13
1973	235	0	40	28.20-141.50	11.80	9	0.29156E-08	-2.08
1973	235	9	35	30.60-142.50	21.10	9	0.45878E-08	5.59
1973	237	5	35	21.10-119.60	-5.50	9	0.00000E+00	99.90
1973	239	19	45	31.50-140.20	4.80	9	0.00000E+00	3.25
1973	240	20	30	27.90-132.00	-7.60	9	0.00000E+00	99.90
1973	241	7	55	22.00-124.20	0.40	9	0.00000E+00	99.90
1973	245	2	35	27.00-134.20	-6.10	9	0.29834E-08	0.74
1973	245	16	30	18.40-123.30	-10.90	9	0.00000E+00	-3.16
1973	320	8	15	41.22-146.31	-15.83	10	0.24245E-08	1.07
1973	320	10	0	41.51-144.24	-15.22	10	0.32449E-08	99.90
1973	330	3	0	29.68 134.52	13.91	10	0.00000E+00	99.90
1973	333	1	40	42.99-162.36	-30.78	10	0.13024E-08	0.67
1973	333	3	0	43.09-159.65	-29.96	10	0.13024E-08	1.40
1973	333	4	30	43.19-155.43	-28.57	10	0.12073E-08	2.42
1973	335	1	0	12.80 23.80	36.00	7	0.17457E-08	99.90
1973	343	2	40	32.39 138.56	4.74	10	0.37560E-08	-1.16
1973	343	4	30	32.54 139.38	-0.09	10	0.45554E-08	-1.80
1973	343	5	20	32.78 140.59	-2.74	10	0.45554E-08	-1.88
1973	345	11	20	42.97-166.29	-28.18	10	0.37533E-08	99.90
1973	350	10	0	16.00 94.00	1.00	2	0.29451E-08	0.24
1973	356	4	10	33.94 133.88	-5.89	10	0.00000E+00	99.90
1973	358	13	0	43.82-171.46	-35.91	10	0.16645E-08	3.11
1974	4	13	0	38.76 143.59	-26.56	10	0.19546E-08	0.45
1974	5	9	20	42.30 162.03	-34.90	10	0.33400E-08	0.18
1974	5	13	40	43.05 164.17	-35.30	10	0.31115E-08	-1.84
1974	5	23	10	44.13 157.76	-31.84	10	0.40623E-08	0.37
1974	6	1	0	44.32 159.99	-33.31	10	0.37415E-08	-0.03
1974	6	3	0	44.54 164.34	-35.54	10	0.37415E-08	-1.21
1974	6	4	50	44.73 170.22	-37.44	10	0.26479E-08	99.90
1974	6	5	50	44.82 173.79	-38.23	10	0.26479E-08	99.90
1974	6	8	10	44.97-179.54	-38.89	10	0.20343E-08	99.90
1974	6	11	0	45.20-175.34	-39.02	10	0.18052E-08	99.90
1974	6	17	30	45.61 177.95	-40.23	10	0.18172E-08	-0.62
1974	6	18	20	45.64 176.69	-40.40	10	0.16895E-08	-1.10
1974	17	18	50	44.25 146.39	-28.79	10	0.18415E-08	99.90
1974	32	2	0	45.83 171.17	-39.59	10	0.22840E-08	-1.69
1974	32	5	40	45.57-176.36	-40.47	10	0.21376E-08	-0.37
1974	32	7	30	45.46-170.69	-39.73	10	0.22224E-08	0.10
1974	32	10	0	45.29-165.41	-38.72	10	0.22301E-08	-1.64
1974	44	13	0	44.57-179.15	-37.41	10	0.28109E-08	-1.50
1974	44	14	0	44.51-179.73	-37.32	10	0.28109E-08	-1.54
1974	45	19	40	39.77-162.85	-36.88	10	0.19746E-08	-0.11
1974	45	21	45	39.33-163.35	-37.73	10	0.17905E-08	1.45
1974	45	23	0	39.14-162.75	-37.89	10	0.17905E-08	1.31
1974	46	2	0	38.48-157.11	-36.48	10	0.14070E-08	-0.14
1974	58	6	30	37.19-154.56	-25.15	10	0.29960E-08	-0.12
1974	58	19	0	34.40-145.73	-25.76	10	0.34117E-08	1.47
1974	71	2	0	32.64-146.40	-18.40	10	0.37589E-08	99.90
1974	71	3	0	32.44-144.41	-16.48	10	0.37589E-08	-0.30
1974	71	5	15	32.02-140.48	-11.51	10	0.30859E-08	-0.13
1974	71	6	15	31.79-138.73	-9.03	10	0.23228E-08	-0.07
1974	71	7	20	31.53-137.21	-6.28	10	0.23228E-08	0.64
1974	71	10	10	31.12-134.50	-1.85	10	0.18794E-08	-0.26
1974	71	13	20	30.27-129.36	-0.13	10	0.17585E-08	99.90
1974	80	22	30	43.30 139.68	-15.58	10	0.34243E-08	-4.54
1974	81	1	30	42.99 142.61	-17.36	10	0.20307E-08	0.35
1974	84	1	0	30.67-140.50	-8.62	10	0.30976E-08	-1.86
1974	84	3	0	30.31-137.03	-4.84	10	0.30976E-08	-2.58

1974	84	5	30	29.88-133.87	1.31	10	0.28723E-08	99.90
1974	94	4	0	41.43 147.47	-14.60	10	0.49821E-08	99.90
1974	97	0	20	29.90-136.29	2.30	10	0.22463E-08	99.90
1974	107	3	20	39.43 149.47	-7.18	10	0.20216E-08	1.18
1974	109	10	50	29.78-148.63	21.24	10	0.46066E-08	3.25
1974	109	11	45	29.53-146.97	21.75	10	0.46066E-08	4.85
1974	109	13	0	29.43-144.99	21.69	10	0.54564E-08	99.90
1974	119	19	0	37.66 143.57	0.10	10	0.32041E-08	-2.41
1974	122	6	0	26.17-132.93	27.55	10	0.23342E-08	1.73
1974	131	23	40	37.24 133.44	5.18	10	0.14135E-08	-2.14
1974	134	13	0	24.90-136.20	37.28	10	0.16037E-08	-0.77
1974	169	3	0	28.81 131.13	18.21	10	0.20354E-08	-0.23
1974	170	18	10	24.36-132.45	34.79	10	0.30056E-08	-3.03
1974	181	9	0	27.44 128.19	11.88	10	0.26684E-08	1.60
1974	182	22	50	25.95-129.02	28.19	10	0.19920E-08	1.12
1974	183	1	10	26.22-125.81	28.34	10	0.19829E-08	0.58
1974	183	2	0	26.35-124.25	28.76	10	0.19829E-08	-0.27
1974	193	23	30	26.88 134.26	33.19	10	0.35518E-08	-2.23
1974	195	12	0	26.72-147.46	43.29	10	0.30336E-08	-0.21
1974	195	13	20	26.78-143.39	41.91	10	0.33051E-08	-0.20
1974	195	14	30	27.11-136.68	39.14	10	0.33051E-08	1.34
1974	206	19	0	28.09 131.39	33.44	10	0.23963E-08	-0.25
1974	208	13	50	29.07-140.13	34.45	10	0.26823E-08	99.90
1974	221	5	30	29.66-140.44	24.53	10	0.31097E-08	99.90
1974	221	8	10	29.90-139.68	27.63	10	0.26931E-08	99.90
1974	221	9	30	30.23-137.12	27.77	10	0.32159E-08	99.90
1974	232	2	15	26.00 141.78	33.16	10	0.10758E-07	-2.70
1974	232	3	45	25.96 145.11	31.28	10	0.98354E-08	-2.09
1974	232	4	30	25.98 146.31	30.11	10	0.98354E-08	-1.52
1974	233	19	30	30.70-134.90	7.21	10	0.37787E-08	99.90
1974	246	5	0	31.64-138.64	6.40	10	0.35572E-08	3.57
1974	256	10	30	25.93 133.99	13.69	10	0.77966E-08	99.90
1974	256	15	20	26.21 145.23	18.64	10	0.89950E-08	99.90
1974	258	9	0	33.38-144.45	6.25	10	0.26792E-08	99.90
1974	258	11	15	33.78-142.11	6.26	10	0.61205E-08	99.90
1974	268	10	30	25.58 131.12	9.27	10	0.00000E+00	99.90
1974	270	13	0	34.87-146.02	-1.66	10	0.38248E-08	99.90
1974	280	7	50	26.38 120.10	8.09	10	0.17101E-08	99.90
1974	292	17	15	29.01 129.12	10.45	10	0.23742E-08	99.90
1974	295	12	0	39.75-148.64	-14.91	10	0.23758E-08	99.90
1974	295	15	0	40.11-147.50	-18.38	10	0.55555E-08	99.90
1974	295	16	30	40.36-147.47	-20.84	10	0.85231E-08	99.90
1974	305	8	50	30.49 129.52	-5.91	10	0.19570E-08	99.90
1974	307	20	0	39.41-168.63	-27.07	10	0.00000E+00	4.31
1974	308	8	30	40.85-148.18	-21.49	10	0.23367E-08	99.90
1974	318	11	10	32.52 133.41	-15.84	10	0.32237E-08	99.90
1974	318	12	45	32.64 135.13	-15.41	10	0.00000E+00	99.90
1974	318	13	50	32.82 135.82	-14.42	10	0.00000E+00	99.90
1974	318	16	30	33.19 138.32	-11.42	10	0.23812E-08	99.90
1974	321	6	30	40.22-150.67	-30.54	10	0.12883E-08	99.90
1974	321	10	0	40.53-144.26	-27.06	10	0.10747E-08	99.90
1974	321	11	0	40.63-143.60	-27.14	10	0.10747E-08	99.90
1974	331	4	15	33.33 128.84	-12.59	10	0.24707E-08	1.55
1974	333	10	40	40.22-162.53	-34.01	10	0.17365E-08	99.90
1974	334	9	30	36.90 153.52	-38.36	10	0.15327E-08	99.90
1974	344	15	15	37.68 152.30	-34.48	10	0.28177E-08	99.90
1974	344	20	30	38.46 150.79	-30.59	10	0.30329E-08	99.90
1974	344	21	30	38.57 150.41	-30.16	10	0.00000E+00	99.90
1974	345	1	20	39.01 154.57	-32.54	10	0.31604E-08	99.90

1974	345	14	45	40.60	-179.65	-39.56	10	0.27461E-08	99.90
1974	345	15	30	40.63	179.19	-39.61	10	0.32423E-08	99.90
1974	357	18	0	40.84	158.31	-38.01	10	0.40113E-08	99.90
1974	357	23	0	41.27	157.24	-36.49	10	0.20720E-08	99.90
1975	7	15	30	41.75	-146.73	-31.70	10	0.00000E+00	99.90
1975	18	0	20	43.10	153.83	-33.38	10	0.28392E-08	99.90
1975	18	1	20	43.19	155.45	-34.18	10	0.30986E-08	99.90
1975	18	4	40	43.19	165.58	-37.69	10	0.27740E-08	99.90
1975	18	8	50	43.09	178.25	-38.95	10	0.25977E-08	99.90
1975	18	10	50	43.06	-178.89	-38.48	10	0.31480E-08	99.90
1975	18	13	10	43.05	-178.96	-38.05	10	0.30058E-08	99.90
1975	18	14	30	42.95	179.65	-37.88	10	0.31863E-08	99.90
1975	18	19	15	42.86	174.27	-36.68	10	0.00000E+00	99.90
1975	18	22	20	42.65	173.37	-36.18	10	0.21246E-08	99.90
1975	19	2	30	42.50	-179.80	-36.43	10	0.24052E-08	99.90
1975	19	3	45	42.38	-175.10	-36.14	10	0.25052E-08	99.90
1975	19	6	50	42.15	-165.43	-33.80	10	0.24174E-08	99.90
1975	19	10	10	41.93	-159.59	-30.97	10	0.32282E-08	99.90
1975	19	11	10	41.85	-158.82	-30.57	10	0.00000E+00	99.90
1975	19	17	0	41.33	-160.61	-32.72	10	0.19755E-08	99.90
1975	19	22	0	40.77	-162.89	-35.05	10	0.15318E-08	99.90
1975	19	23	15	40.67	-162.37	-35.12	10	0.19663E-08	99.90
1975	20	0	30	40.58	-160.79	-34.71	10	0.17793E-08	99.90
1975	20	2	0	40.30	-157.10	-33.38	10	0.20776E-08	99.90
1975	42	22	10	42.00	147.41	-22.88	10	0.46561E-08	99.90
1975	43	1	40	41.77	151.68	-24.35	10	0.35421E-08	99.90
1975	43	3	15	41.67	154.20	-26.07	10	0.00000E+00	99.90
1975	45	16	0	34.61	-143.07	-7.95	10	0.31053E-08	99.90
1975	45	19	40	33.91	-139.98	-11.98	10	0.39856E-08	99.90
1975	45	21	0	33.84	-139.14	-13.38	10	0.34159E-08	99.90
1975	45	23	10	33.58	-137.06	-13.54	10	0.00000E+00	99.90
1975	55	9	0	41.27	150.56	-28.46	10	0.43934E-08	99.90
1975	55	11	0	41.12	152.99	-28.48	10	0.38128E-08	99.90
1975	58	8	45	34.32	-142.89	6.40	10	0.18704E-08	99.90
1975	70	21	30	33.71	-139.99	2.25	10	0.36385E-08	99.90
1975	79	23	0	39.78	135.50	-4.01	10	0.00000E+00	99.90
1975	82	22	15	33.15	-149.82	7.66	10	0.00000E+00	99.90
1975	83	0	50	32.84	-145.95	8.71	10	0.00000E+00	99.90
1975	83	1	45	32.69	-144.76	9.88	10	0.00000E+00	99.90
1975	83	2	40	32.58	-143.83	11.22	10	0.00000E+00	99.90
1975	83	3	30	32.56	-143.36	12.59	10	0.00000E+00	99.90
1975	92	13	20	39.55	137.85	-10.78	10	0.00000E+00	99.90
1975	92	14	15	39.42	138.36	-8.95	10	0.16682E-08	99.90
1975	92	22	30	38.85	145.01	5.12	10	0.49656E-08	99.90
1975	95	12	30	31.18	-147.01	27.01	10	0.15784E-08	99.90
1975	104	18	0	38.57	131.04	2.64	10	0.27072E-08	99.90
1975	104	18	45	38.42	132.15	4.61	10	0.25827E-08	99.90
1975	104	21	50	38.09	135.26	9.33	10	0.19907E-08	-1.58
1975	107	10	0	30.38	-157.46	30.41	10	0.00000E+00	99.90
1975	117	11	0	35.56	135.39	2.02	10	0.19051E-08	99.90
1975	119	18	0	28.23	-137.50	27.26	10	0.00000E+00	99.90
1975	129	19	30	33.76	140.42	24.38	10	0.00000E+00	99.90
1975	142	0	50	32.86	141.72	31.91	10	0.00000E+00	3.39
1975	143	19	30	30.22	-143.15	31.12	10	0.23566E-08	99.90
1975	154	18	50	32.44	143.57	36.42	10	0.00000E+00	-1.73
1975	156	10	45	30.63	-152.55	41.69	10	0.26452E-08	99.90
1975	167	15	0	31.82	143.02	35.46	10	0.00000E+00	99.90
1975	180	12	10	30.61	158.44	37.78	10	0.00000E+00	99.90
1975	180	13	15	30.53	161.39	38.63	10	0.00000E+00	99.90

1975	181	18	0	30.12	-135.55	22.22	10	0.20658E-08	99.90
1975	191	21	45	30.95	132.16	42.98	10	0.00000E+00	99.90
1975	194	0	45	30.22	-135.15	11.40	10	0.20583E-08	1.57
1975	194	1	30	30.22	-134.68	11.80	10	0.24915E-08	-0.19
1975	194	6	20	30.60	-131.08	17.24	10	0.11750E-08	99.90
1975	206	4	20	29.93	-143.18	14.46	10	0.11043E-07	99.90
1975	206	6	20	30.18	-141.55	16.16	10	0.55873E-08	99.90
1975	206	7	50	30.39	-139.53	17.09	10	0.79656E-08	99.90
1975	218	14	0	31.92	-139.90	10.57	10	0.16761E-08	99.90
1975	218	15	30	32.10	-137.53	7.03	10	0.17986E-08	99.90
1975	218	18	30	32.47	-133.66	-1.94	10	0.00000E+00	99.90
1975	231	1	15	34.40	-133.29	-11.69	10	0.00000E+00	99.90
1975	240	17	50	29.86	140.03	22.11	10	0.00000E+00	99.90
1975	243	7	0	34.97	-136.55	-4.69	10	0.00000E+00	99.90
1975	253	1	40	32.10	131.40	21.15	10	0.00000E+00	-5.42
1975	253	4	0	32.10	132.85	15.88	10	0.00000E+00	-3.74
1975	253	5	30	32.08	133.57	12.32	10	0.00000E+00	-3.95
1975	253	6	45	32.10	136.04	9.28	10	0.00000E+00	99.90
1975	255	18	0	34.29	-147.34	-14.91	10	0.00000E+00	99.90
1975	255	19	15	34.39	-146.83	-17.18	10	0.00000E+00	99.90
1975	255	21	0	34.50	-145.34	-19.81	10	0.00000E+00	99.90
1975	255	22	15	34.56	-144.52	-20.83	10	0.00000E+00	99.90
1975	255	23	5	34.60	-143.16	-21.29	10	0.00000E+00	99.90
1975	256	1	0	34.76	-140.10	-20.97	10	0.00000E+00	99.90
1975	265	16	20	32.23	133.65	6.61	10	0.00000E+00	0.32
1975	268	5	10	34.27	-145.86	-17.85	10	0.00000E+00	-0.84
1975	277	21	20	31.60	130.12	9.26	10	0.00000E+00	99.90
1975	280	6	40	34.38	-149.55	-20.84	10	0.00000E+00	99.90
1975	290	8	40	31.25	134.63	-16.04	10	0.00000E+00	99.90
1975	292	11	40	34.75	-150.36	-23.96	10	0.00000E+00	99.90
1975	302	11	40	31.83	129.04	-21.91	10	0.00000E+00	99.90
1975	302	12	30	31.78	129.45	-21.41	10	0.00000E+00	99.90
1975	302	14	0	31.93	130.80	-20.01	10	0.00000E+00	99.90
1975	302	16	0	32.02	132.36	-17.29	10	0.00000E+00	99.90
1975	302	21	0	32.30	136.32	-12.59	10	0.00000E+00	99.90
1975	302	22	0	32.37	137.30	-12.77	10	0.00000E+00	99.90
1975	315	1	10	32.91	132.15	-18.88	10	0.00000E+00	99.90
1975	315	3	40	33.18	137.78	-25.94	10	0.00000E+00	99.90
1975	315	5	15	33.32	141.16	-29.90	10	0.00000E+00	99.90
1975	315	14	20	34.18	155.78	-35.42	10	0.00000E+00	99.90
1975	315	15	30	34.33	156.61	-34.71	10	0.00000E+00	99.90
1975	317	1	40	37.89	-163.64	-40.62	10	0.00000E+00	99.90
1975	317	2	45	37.29	-160.68	-38.61	10	0.00000E+00	99.90
1975	317	3	40	37.32	-157.19	-37.47	10	0.00000E+00	99.90
1975	317	4	40	37.41	-153.82	-35.90	10	0.00000E+00	99.90
1975	327	19	40	35.31	142.69	-31.67	10	0.00000E+00	99.90
1975	328	0	20	35.60	146.25	-32.37	10	0.00000E+00	99.90
1975	328	2	50	35.84	153.53	-36.77	10	0.00000E+00	99.90
1975	328	10	0	36.37	177.37	-42.01	10	0.00000E+00	99.90
1975	328	11	15	36.39	178.33	-41.85	10	0.00000E+00	99.90
1975	328	19	0	36.96	173.51	-40.56	10	0.00000E+00	99.90
1975	329	6	0	37.54	-161.77	-38.25	10	0.00000E+00	99.90
1975	341	1	20	37.37	159.41	-38.97	10	0.00000E+00	99.90
1975	341	3	30	37.49	167.68	-41.10	10	0.00000E+00	99.90
1975	341	6	40	37.61	-178.24	-41.85	10	0.00000E+00	99.90
1975	341	11	30	37.77	-169.04	-40.02	10	0.00000E+00	99.90
1975	353	7	10	36.89	159.36	-44.32	10	0.00000E+00	99.90
1975	353	8	40	36.94	165.52	-44.99	10	0.00000E+00	99.90
1975	353	10	30	37.01	169.19	-44.80	10	0.00000E+00	99.90

1975	353	13	15	37.07	169.09	-43.74	10	0.00000E+00	99.90
1975	353	18	20	37.24	163.86	-40.01	10	0.00000E+00	99.90
1975	354	20	50	37.55	-164.92	-36.89	10	0.00000E+00	99.90
1975	354	22	0	37.50	-164.71	-36.96	10	0.00000E+00	99.90
1975	355	2	0	37.49	-157.51	-34.64	10	0.00000E+00	99.90
1975	355	3	0	37.50	-154.68	-33.09	10	0.00000E+00	99.90
1975	355	4	0	37.44	-151.68	-31.18	10	0.00000E+00	99.90
1977	298	6	14	11.90	-45.50	40.20	3	0.35190E-08	1.10
1977	299	20	30	26.62	139.37	-32.19	12	0.00000E+00	99.90
1977	300	5	46	9.00	13.00	20.00	3	0.53800E-08	99.90
1977	300	13	20	8.80	13.00	42.30	3	0.00000E+00	99.90
1977	302	14	28	9.90	9.00	22.10	3	0.37350E-08	3.80
1977	303	0	47	11.60	-58.75	28.20	3	0.34520E-08	3.20
1977	304	22	17	11.90	-6.00	25.20	3	0.17290E-08	1.30
1977	304	23	25	10.40	-2.25	24.30	3	0.18340E-08	1.70
1977	305	10	0	11.40	-53.00	46.00	3	0.26980E-08	3.20
1977	307	7	52	11.60	2.00	26.00	3	0.00000E+00	99.90
1977	307	21	36	14.00	-59.00	26.40	3	0.12910E-08	1.60
1977	309	17	14	11.60	-6.00	26.40	3	0.15740E-08	2.00
1977	310	5	50	12.70	-59.25	40.40	3	0.18620E-08	-0.40
1977	311	20	0	27.00	129.55	-33.31	12	0.14830E-08	99.90
1977	312	2	50	11.30	-9.50	26.10	3	0.17800E-08	99.90
1977	312	14	39	12.10	-9.50	40.40	3	0.00000E+00	99.90
1977	313	16	45	31.08	-138.44	-18.36	12	0.25050E-08	99.90
1977	314	14	59	7.40	3.50	21.30	3	0.89730E-08	-5.90
1977	314	22	40	10.40	-75.00	23.70	3	0.38710E-08	-0.20
1977	316	21	38	11.20	-17.50	24.20	3	0.25020E-08	-0.90
1977	316	22	57	9.40	-12.25	23.10	3	0.35400E-08	-2.60
1977	317	8	32	11.00	-72.50	45.30	3	0.28520E-08	-5.40
1977	319	6	27	11.80	-13.50	29.20	3	0.00000E+00	1.70
1977	321	15	25	12.30	-18.50	29.60	3	0.12440E-08	0.90
1977	322	6	32	14.60	-69.50	41.30	3	0.12100E-08	-1.20
1977	323	22	0	26.83	132.06	-36.23	12	0.22230E-08	99.90
1977	324	1	27	11.50	-24.75	24.70	3	0.00000E+00	99.90
1977	324	14	30	13.20	-76.00	39.30	3	0.00000E+00	99.90
1977	326	11	31	10.70	-15.50	31.10	3	0.00000E+00	99.90
1977	328	19	26	12.30	-32.00	24.60	3	0.11360E-08	2.80
1977	329	10	13	14.10	-78.75	44.40	3	0.15030E-08	0.80
1977	331	7	5	9.60	-19.75	29.40	3	0.00000E+00	4.70
1977	331	20	44	15.30	-81.50	21.40	3	0.17700E-08	1.10
1977	333	14	56	11.40	-29.50	29.90	3	0.18300E-08	-1.50
1977	334	2	30	11.50	-92.00	23.40	3	0.62990E-08	1.10
1977	336	2	9	9.10	-31.00	21.60	3	0.38480E-08	99.90
1977	336	3	26	6.80	-21.00	21.20	3	0.00000E+00	99.90
1977	336	11	30	28.40	147.97	-36.44	12	0.63450E-08	99.90
1977	336	14	7	14.00	-88.50	36.80	3	0.57030E-08	99.90
1977	336	14	15	28.71	155.05	-35.32	12	0.88390E-08	99.90
1977	336	15	0	28.79	156.52	-35.04	12	0.00000E+00	99.90
1977	338	8	10	13.20	-36.50	34.60	3	0.17710E-08	99.90
1977	338	14	15	35.67	-140.87	-1.83	12	0.25360E-08	99.90
1977	338	22	21	12.90	-93.50	16.90	3	0.56070E-08	99.90
1977	338	20	34	10.80	-93.50	15.60	3	0.00000E+00	99.90
1977	340	18	37	12.00	-43.50	22.60	3	0.21920E-08	1.00
1977	341	9	29	14.60	-92.75	39.40	3	0.21030E-08	3.80
1977	343	5	4	10.70	-40.00	26.40	3	0.00000E+00	-3.30
1977	345	14	35	10.40	-41.00	27.60	3	0.38660E-08	-2.00
1977	346	3	43	14.10	-98.50	23.10	3	0.45960E-08	-6.50
1977	347	21	34	13.20	-55.50	15.30	3	0.23050E-08	99.90
1977	348	15	30	30.30	132.95	-37.10	12	0.12610E-08	99.90

1977	348	17	50	17.90	-93.25	21.40	3	0.12070E-08	99.90
1977	350	6	39	13.40	-93.25	30.10	3	0.00000E+00	99.90
1977	350	23	29	15.10	-100.25	12.50	3	0.13620E-08	99.90
1977	351	4	40	36.78	-150.35	2.13	12	0.11460E-08	99.90
1977	352	16	29	12.80	-57.25	22.40	3	0.17860E-08	99.90
1977	353	13	26	18.50	-97.50	32.50	3	0.15480E-08	0.30
1977	355	1	8	13.70	-63.25	13.20	3	0.21100E-08	0.80
1977	355	2	34	12.20	-59.50	15.90	3	0.23250E-08	1.50
1977	355	19	46	16.40	-102.50	14.10	3	0.39590E-08	-0.60
1977	357	12	23	11.50	-57.00	28.60	3	0.19580E-08	3.20
1977	358	5	31	16.70	-105.00	23.40	3	0.27800E-08	5.40
1977	359	22	33	10.50	-60.75	8.50	3	0.40450E-08	-1.10
1977	360	12	51	15.10	-112.00	29.20	3	0.53980E-08	99.90
1977	361	13	30	31.66	144.97	-31.18	12	0.39120E-08	99.90
1977	362	6	24	12.30	-65.00	24.40	3	0.00000E+00	99.90
1977	364	13	23	14.80	-73.00	27.10	3	0.14530E-08	99.90
1977	365	11	42	18.20	-110.75	30.00	3	0.22810E-08	1.00
1978	2	3	10	9.80	-65.50	10.40	3	0.00000E+00	-6.90
1978	2	21	15	18.40	-109.75	7.60	3	0.00000E+00	0.30
1978	4	13	11	8.80	-63.00	22.10	3	0.86940E-08	-11.80
1978	7	16	12	18.40	-115.25	17.90	3	0.18600E-08	-2.10
1978	7	19	10	19.90	-111.25	10.00	3	0.33000E-08	0.80
1978	8	21	0	30.82	133.18	-29.64	12	0.00000E+00	99.90
1978	9	0	40	16.60	-86.75	2.90	3	0.00000E+00	99.90
1978	9	2	30	15.10	-84.00	7.30	3	0.19790E-08	99.90
1978	10	1	35	18.40	-84.00	7.30	3	0.00000E+00	99.90
1978	11	12	33	14.60	-84.00	23.50	3	0.00000E+00	99.90
1978	12	3	30	39.64	-146.67	23.77	12	0.12350E-08	99.90
1978	12	19	15	21.80	-111.00	7.80	3	0.13140E-08	99.90
1978	13	18	51	17.00	-92.00	6.00	3	0.14380E-08	-0.30
1978	13	20	0	16.10	-90.50	3.00	3	0.15020E-08	-3.20
1978	13	22	25	14.00	-86.75	-0.50	3	0.00000E+00	-2.00
1978	15	3	39	21.60	-114.25	10.50	3	0.13160E-08	0.90
1978	16	8	40	13.00	-87.00	20.80	3	0.47960E-08	1.40
1978	17	7	0	19.20	-122.75	19.70	3	0.00000E+00	6.90
1978	18	13	46	16.80	-96.50	18.20	3	0.00000E+00	99.90
1978	19	23	36	21.90	-117.25	1.80	3	0.13140E-08	0.80
1978	20	19	23	19.20	-117.25	2.50	3	0.00000E+00	99.90
1978	21	12	10	30.98	131.02	-24.73	12	0.00000E+00	99.90
1978	22	5	0	20.70	-123.25	12.70	3	0.00000E+00	99.90
1978	23	4	9	19.50	-123.25	7.20	3	0.00000E+00	99.90
1978	23	8	29	16.80	-101.00	18.90	3	0.12360E-08	99.90
1978	24	8	50	39.71	-160.97	23.03	12	0.14780E-08	99.90
1978	24	10	30	39.91	-159.25	23.98	12	0.15490E-08	99.90
1978	24	14	20	40.19	-156.72	25.31	12	0.14950E-08	99.90
1978	24	15	15	21.06	-126.81	23.21	6	0.28770E-08	99.90
1978	24	17	30	21.68	-125.20	23.08	6	0.27910E-08	99.90
1978	24	19	45	22.18	-123.38	23.38	6	0.00000E+00	99.90
1978	24	20	20	22.23	-122.60	23.32	6	0.00000E+00	99.90
1978	29	8	45	20.58	-132.86	22.87	6	0.69200E-08	-1.60
1978	29	11	10	21.49	-130.70	23.01	6	0.91420E-08	-3.90
1978	29	15	20	22.27	-127.65	23.27	6	0.47630E-08	2.90
1978	30	12	0	18.17	-108.12	20.28	6	0.90660E-08	2.20
1978	32	6	0	22.54	-124.99	22.98	6	0.25280E-08	99.90
1978	32	14	30	20.76	-118.56	22.07	6	0.33180E-08	99.90
1978	32	16	0	20.14	-117.39	21.86	6	0.36350E-08	99.90
1978	32	19	0	19.40	-113.45	21.15	6	0.30200E-08	0.90
1978	34	1	30	32.11	135.47	-13.97	12	0.00000E+00	99.90
1978	36	20	30	41.56	-163.83	27.88	12	0.17820E-08	99.90

1978	37	9	0	20.75	-124.02	21.49	6	0.00000E+00	99.90
1978	37	10	30	20.27	-122.42	21.71	6	0.00000E+00	99.90
1978	42	4	30	20.62	-128.01	21.63	6	0.32550E-08	5.00
1978	46	5	0	21.52	-146.71	22.68	6	0.00000E+00	99.90
1978	46	9	0	22.44	-143.85	22.81	6	0.11510E-07	99.90
1978	46	10	15	22.51	-142.63	22.74	6	0.00000E+00	99.90
1978	46	11	15	22.61	-141.81	22.63	6	0.00000E+00	99.90
1978	47	6	40	36.58	152.02	8.63	12	0.00000E+00	99.90
1978	49	8	0	42.23	-168.04	31.44	12	0.10160E-08	99.90
1978	49	20	45	42.76	-156.08	34.73	12	0.10630E-08	99.90
1978	58	20	40	35.75	132.75	3.50	12	0.38480E-08	99.90
1978	58	21	30	35.88	133.39	4.00	12	0.38350E-08	99.90
1978	59	6	30	36.73	137.66	7.30	12	0.28950E-08	99.90
1978	59	8	0	37.06	139.32	8.57	12	0.23900E-08	99.90
1978	61	7	0	42.52	179.56	30.91	12	0.00000E+00	99.90
1978	61	8	40	42.60	-178.77	31.47	12	0.38330E-08	99.90
1978	61	16	30	42.86	-171.93	33.42	12	0.36380E-08	99.90
1978	72	0	20	40.72	144.73	20.17	12	0.00000E+00	99.90
1978	72	1	15	40.84	145.50	20.62	12	0.10610E-08	99.90
1978	73	19	0	43.33	179.58	34.07	12	0.00000E+00	99.90
1978	99	6	0	41.17	-178.79	36.16	12	0.17380E-08	99.90
1978	99	6	40	41.12	-177.74	36.10	12	0.15080E-08	99.90
1978	99	12	0	40.90	-172.54	35.53	12	0.15810E-08	99.90
1978	99	13	30	40.78	-170.46	35.28	12	0.14230E-08	99.90
1978	99	15	0	40.71	-169.41	35.13	12	0.13690E-08	99.90
1978	111	5	10	41.76	160.53	35.58	12	0.00000E+00	99.90
1978	111	6	50	41.71	162.57	35.58	12	0.00000E+00	99.90
1978	111	7	40	41.70	163.61	35.56	12	0.00000E+00	99.90
1978	113	11	15	37.99	-145.73	21.61	12	0.25140E-08	99.90
1978	122	13	30	41.51	128.48	34.56	12	0.17050E-08	99.90
1978	122	20	30	41.70	134.46	35.44	12	0.25030E-08	99.90
1978	122	23	0	41.78	137.47	35.74	12	0.27360E-08	99.90
1978	123	13	0	41.85	151.81	36.07	12	0.00000E+00	99.90
1978	126	22	15	35.03	-132.48	4.29	12	0.68110E-09	99.90
1978	141	12	0	17.90	115.02	22.33	6	0.45160E-08	4.20
1978	141	13	0	18.50	115.97	22.23	6	0.00000E+00	99.90
1978	141	19	0	21.13	121.76	20.79	6	0.40550E-08	-4.90
1978	149	6	5	41.40	-154.16	30.80	12	0.00000E+00	99.90
1978	149	13	15	40.46	161.67	28.81	12	0.36980E-08	99.90
1978	149	16	50	40.03	165.27	27.33	12	0.41280E-08	99.90
1978	149	18	40	39.80	167.06	26.54	12	0.00000E+00	99.90
1978	149	20	0	39.68	167.95	26.14	12	0.00000E+00	99.90
1978	151	4	0	18.96	107.51	21.67	6	0.17360E-08	99.90
1978	151	6	15	19.95	109.51	21.46	6	0.95540E-09	99.90
1978	151	7	55	20.68	111.25	20.96	6	0.71040E-09	99.90
1978	151	8	30	21.03	111.86	21.18	6	0.13010E-08	99.90
1978	151	11	50	21.94	114.70	20.27	6	0.11750E-08	99.90
1978	151	16	55	22.37	118.02	19.59	6	0.39610E-08	99.90
1978	151	19	0	22.32	121.06	18.82	6	0.32770E-08	99.90
1978	151	20	0	22.29	121.43	18.85	6	0.30730E-08	99.90
1978	151	21	30	22.17	122.55	18.68	6	0.30160E-08	99.90
1978	153	6	10	14.20	96.58	22.80	6	0.00000E+00	99.90
1978	154	8	45	22.23	121.43	18.36	6	0.80980E-08	0.70
1978	155	21	30	18.95	102.46	21.67	6	0.43900E-08	-7.80
1978	160	19	0	20.14	101.01	20.64	6	0.00000E+00	99.90
1978	161	14	0	21.40	116.19	17.68	6	0.00000E+00	99.90
1978	161	14	20	39.65	150.85	28.76	12	0.00000E+00	99.90
1978	163	0	0	17.84	93.81	22.06	6	0.00000E+00	99.90
1978	164	9	30	28.89	-137.15	-18.82	12	0.00000E+00	99.90

1978	165	9	0	17.59	91.41	22.04	6	0.10160E-08	-0.90
1978	168	19	45	20.08	111.75	17.38	6	0.23450E-08	-1.50
1978	169	22	20	12.99	77.47	22.64	6	0.43520E-08	99.90
1978	170	22	30	22.35	102.79	18.25	6	0.33250E-08	-6.90
1978	172	6	10	11.34	70.35	23.39	6	0.28870E-08	-2.90
1978	173	17	30	19.67	108.82	15.94	6	0.35750E-08	99.90
1978	173	21	20	37.94	145.28	26.20	12	0.31910E-08	99.90
1978	174	19	0	14.98	77.07	22.37	6	0.29670E-08	99.90
1978	176	0	30	20.61	104.67	16.64	6	0.00000E+00	99.90
1978	176	8	30	27.86	-145.82	-20.40	12	0.00000E+00	99.90
1978	176	23	20	9.32	60.75	22.72	6	0.00000E+00	99.90
1978	178	10	30	20.30	102.75	16.31	6	0.14590E-08	-2.50
1978	183	7	20	19.50	99.75	3.70	3	0.18110E-08	-0.50
1978	185	21	52	16.20	104.75	20.10	3	0.00000E+00	99.90
1978	186	2	0	36.69	141.13	22.13	12	0.00000E+00	99.90
1978	186	14	32	11.70	60.25	11.90	3	0.00000E+00	99.90
1978	188	7	2	16.30	60.25	0.80	3	0.00000E+00	99.90
1978	188	23	51	11.70	54.50	26.90	3	0.14570E-08	99.90
1978	190	12	59	18.50	95.00	-3.10	3	0.20200E-08	1.60
1978	190	13	38	18.20	95.75	-2.20	3	0.18780E-08	3.10
1978	190	15	20	17.10	97.75	1.40	3	0.22670E-08	99.90
1978	191	8	25	10.90	54.75	9.00	3	0.20550E-08	0.30
1978	191	10	49	13.30	60.25	5.60	3	0.15820E-08	0.40
1978	193	17	40	10.60	50.25	18.50	3	0.20220E-08	2.90
1978	193	18	15	11.30	52.00	19.60	3	0.17480E-08	3.10
1978	196	2	52	10.50	52.00	20.20	3	0.00000E+00	99.90
1978	200	6	55	15.20	52.00	-5.20	3	0.00000E+00	99.90
1978	200	21	35	28.87	-142.88	-32.33	12	0.00000E+00	99.90
1978	200	23	0	12.20	45.50	23.60	3	0.78960E-09	99.90
1978	202	12	37	18.00	85.00	-8.80	3	0.14390E-08	0.60
1978	205	0	30	16.20	85.75	10.80	3	0.18340E-08	-1.40
1978	205	16	30	10.70	85.75	14.30	3	0.00000E+00	99.90
1978	207	9	40	16.40	85.75	-11.90	3	0.00000E+00	99.90
1978	208	3	20	12.50	85.75	16.30	3	0.00000E+00	99.90
1978	209	19	56	15.70	85.75	7.50	3	0.00000E+00	99.90
1978	210	11	22	11.00	39.50	7.20	3	0.12980E-08	99.90
1978	211	2	15	34.31	136.72	8.73	12	0.16210E-08	99.90
1978	212	4	45	16.10	79.50	-2.30	3	0.12260E-08	99.90
1978	212	20	51	11.10	79.50	20.80	3	0.00000E+00	99.90
1978	213	13	50	29.35	-135.73	-35.83	12	0.20210E-08	99.90
1978	215	4	21	8.60	26.75	17.50	3	0.60860E-08	-1.70
1978	217	0	59	14.80	77.25	4.50	3	0.24140E-08	2.30
1978	217	1	25	14.30	78.00	3.60	3	0.23380E-08	-0.20
1978	217	13	54	9.00	28.75	12.50	3	0.37090E-08	-1.70
1978	217	14	30	9.80	30.75	12.30	3	0.35890E-08	-1.90
1978	219	9	4	15.90	72.25	-14.90	3	0.13410E-08	-0.70
1978	220	2	43	13.20	34.25	16.30	3	0.10070E-08	-0.10
1978	221	20	10	14.40	73.25	3.20	3	0.11430E-08	-0.10
1978	222	9	38	10.40	29.75	10.40	3	0.22780E-08	-2.40
1978	224	7	11	12.70	73.75	-15.20	3	0.38550E-08	99.90
1978	224	18	37	9.70	21.75	19.00	3	0.22180E-08	99.90
1978	226	3	0	29.07	-138.77	-36.17	12	0.11650E-08	-0.40
1978	226	14	55	14.30	68.25	-12.20	3	0.25650E-08	1.40
1978	226	15	51	13.40	70.25	-10.20	3	0.27480E-08	0.50
1978	227	7	8	13.50	31.25	9.80	3	0.98360E-09	0.50
1978	229	1	43	12.90	69.50	-1.70	3	0.20990E-08	-0.10
1978	229	12	8	8.10	18.00	17.10	3	0.46410E-08	-6.90
1978	231	10	39	13.40	64.50	-19.60	3	0.24920E-08	-0.60
1978	232	1	12	12.90	22.75	18.80	3	0.13940E-08	0.90

1978	233	21	9	12.20	66.00	-1.00	3	0.45170E-08	-0.70
1978	233	21	41	11.40	67.50	-1.40	3	0.23630E-08	-6.00
1978	234	9	1	11.10	22.50	13.50	3	0.22810E-08	3.30
1978	236	6	34	12.10	62.75	-15.40	3	0.33210E-08	-0.20
1978	236	16	0	32.23	136.02	-10.71	12	0.30560E-08	1.80
1978	236	17	18	9.80	13.50	20.40	3	0.19770E-08	3.60
1978	238	12	50	14.90	55.25	-15.40	3	0.11660E-08	-1.40
1978	238	14	15	13.80	57.25	-14.60	3	0.11330E-08	-1.70
1978	238	17	0	28.72	-137.85	-35.21	12	0.00000E+00	99.90
1978	239	2	46	9.80	10.50	21.50	3	0.22450E-08	-0.10
1978	241	1	14	12.00	59.50	-3.10	3	0.31250E-08	0.50
1978	241	12	16	10.10	15.00	18.40	3	0.28630E-08	-3.50
1978	243	10	18	12.40	54.00	-19.50	3	0.00000E+00	-1.00
1978	243	21	65	10.60	6.25	22.60	3	0.00000E+00	1.90
1978	245	19	35	12.30	54.25	-3.30	3	0.22240E-08	-2.30
1978	246	7	20	10.60	11.75	20.30	3	0.18020E-08	-1.90
1978	248	5	4	12.50	50.75	-10.50	3	0.15110E-08	-0.30
1978	248	16	13	9.80	6.25	23.30	3	0.17370E-08	-3.10
1978	249	5	15	30.36	131.26	-15.98	12	0.27820E-08	-5.70
1978	250	14	35	12.40	48.00	-14.40	3	0.12750E-08	0.10
1978	251	0	44	8.50	-5.25	26.00	3	0.22430E-08	-11.00
1978	253	0	0	12.20	-5.25	-1.80	3	0.24900E-08	-3.10
1978	253	0	45	11.30	-5.25	-3.70	3	0.00000E+00	99.90
1978	253	2	4	9.70	-5.25	-8.00	3	0.00000E+00	99.90
1978	253	10	55	9.80	6.75	24.50	3	0.25250E-08	2.20
1978	253	12	28	11.80	10.00	21.10	3	0.12910E-08	-0.50
1978	255	19	54	9.60	-5.75	25.90	3	0.26390E-08	-3.50
1978	257	16	55	14.00	39.50	-5.30	3	0.14740E-08	1.50
1978	257	17	43	13.20	40.75	-4.90	3	0.12960E-08	1.70
1978	258	6	47	11.30	3.50	25.80	3	0.14970E-08	0.80
1978	260	5	20	10.70	42.50	-12.40	3	0.25910E-08	-2.20
1978	260	15	25	10.40	-1.50	27.30	3	0.22200E-08	2.40
1978	261	16	0	28.53	129.30	-22.20	12	0.12980E-08	1.90
1978	263	1	53	11.80	-5.50	25.50	3	0.11220E-08	-0.80
1978	264	22	51	12.10	36.25	-0.40	3	0.18000E-08	4.40
1978	265	10	44	11.10	0.50	28.40	3	0.13790E-08	-2.70
1978	267	7	48	12.70	31.50	-10.20	3	0.11430E-08	0.70
1978	267	18	15	8.50	-18.25	31.60	3	0.44330E-08	5.50
1978	269	17	11	12.60	30.50	-4.10	3	0.53370E-08	-0.70
1978	269	17	29	12.20	31.50	-4.20	3	0.17330E-08	-1.60
1978	270	4	1	9.10	-16.75	32.10	3	0.61050E-08	-2.20
1978	272	18	30	15.00	-7.50	24.90	3	0.33390E-09	16.50
1978	272	21	0	17.00	-6.25	22.50	3	0.40800E-09	15.20
1978	273	12	0	28.21	115.85	-21.81	12	0.43780E-09	-0.80
1978	273	13	40	27.92	119.31	-23.56	12	0.59520E-09	-1.20
1978	273	17	40	27.53	124.80	-26.10	12	0.71530E-09	-0.50
1978	274	23	52	11.20	-20.00	28.20	3	0.20950E-08	-0.40
1978	276	21	47	12.20	24.50	1.00	3	0.15510E-08	-0.70
1978	279	6	42	12.20	22.00	-5.30	3	0.17380E-08	0.20
1978	279	7	45	10.80	23.50	-9.10	3	0.26240E-08	0.20
1978	279	20	11	12.40	-21.50	28.20	3	0.97090E-09	-0.10
1978	281	18	35	9.50	25.50	-4.50	3	0.41600E-08	0.40
1978	282	4	20	11.20	-22.50	33.30	3	0.51270E-08	2.90
1978	284	2	44	11.10	20.00	-1.10	3	0.15370E-08	3.20
1978	284	13	50	11.30	-19.25	36.80	3	0.17510E-08	2.40
1978	286	12	30	10.60	17.50	-6.20	3	0.25290E-08	4.20
1978	286	23	5	11.00	-33.25	29.60	3	0.20290E-08	4.00
1978	288	21	2	11.70	14.00	2.20	3	0.16580E-08	1.60
1978	288	21	55	10.60	16.00	0.80	3	0.17340E-08	-0.40

1978	289	8	48	11.50	-20.00	40.20	3	0.18400E-08	1.00
1978	291	7	53	9.70	14.75	-6.00	3	0.34170E-08	-1.30
1978	294	4	0	12.00	-33.75	35.10	3	0.13470E-08	-1.20
1978	296	1	25	11.30	8.00	2.40	3	0.17100E-08	1.40
1978	296	12	15	11.50	8.00	42.70	3	0.00000E+00	99.90
1978	298	5	0	27.03	140.06	-35.43	12	0.61880E-08	-0.70
1978	298	12	51	8.50	10.75	-5.60	3	0.40390E-08	-4.50
1978	298	22	2	11.10	-46.50	29.50	3	0.31830E-08	3.40
1978	300	5	0	32.24	-133.99	-5.50	12	0.15110E-08	99.90
1978	301	8	21	12.30	-33.75	42.70	3	0.26600E-08	-3.90
1978	303	6	33	10.00	4.00	0.40	3	0.19820E-08	-5.70
1978	305	15	21	10.80	0.25	3.10	3	0.32090E-08	2.60
1978	306	22	12	17.30	110.71	59.53	14	0.22634E-08	2.80
1978	307	1	24	13.70	111.40	54.64	14	0.21666E-08	-1.10
1978	308	1	37	9.60	0.50	1.10	3	0.20490E-08	2.00
1978	308	13	1	12.80	-43.50	42.90	3	0.72770E-09	-2.30
1978	310	9	50	10.80	-3.50	5.00	3	0.18890E-08	-0.60
1978	310	22	4	12.40	-56.75	27.10	3	0.36430E-08	0.40
1978	310	21	14	11.60	-56.75	28.10	3	0.00000E+00	99.90
1978	315	3	46	15.60	103.20	57.78	14	0.46282E-08	-0.30
1978	315	4	53	9.30	-5.75	2.40	3	0.41930E-08	0.30
1978	315	16	24	12.00	-59.50	36.50	3	0.36370E-08	0.30
1978	315	17	26	11.00	-61.39	69.95	14	0.36895E-08	-0.90
1978	317	13	19	11.60	-12.00	8.50	3	0.00000E+00	-4.50
1978	318	4	2	14.40	-57.25	33.40	3	0.70720E-09	6.00
1978	318	19	46	24.00	96.20	67.28	14	0.33337E-09	-2.60
1978	318	23	11	21.60	96.89	64.82	14	0.32013E-09	0.20
1978	319	16	15	17.50	-24.50	15.10	3	0.55600E-09	99.90
1978	319	21	16	13.40	-64.13	74.13	14	0.21364E-08	-0.40
1978	319	23	6	11.40	-16.00	3.60	3	0.23330E-08	0.80
1978	319	19	43	14.70	-16.00	8.20	3	0.00000E+00	99.90
1978	322	21	15	14.10	-66.25	23.50	3	0.18960E-08	0.30
1978	323	10	44	12.10	94.70	52.66	14	0.53989E-08	-3.50
1978	323	21	22	10.70	-71.57	69.22	14	0.52662E-08	7.20
1978	324	20	8	8.20	-11.50	-1.00	3	0.66650E-08	-9.00
1978	325	7	11	14.60	-62.50	40.40	3	0.22320E-08	2.10
1978	325	4	45	11.60	-62.50	36.00	3	0.00000E+00	99.90
1978	327	3	28	10.80	-21.50	5.30	3	0.26180E-08	2.80
1978	327	8	55	16.60	90.00	59.27	14	0.18791E-08	-0.10
1978	327	17	21	14.30	-69.50	29.40	3	0.14320E-08	-1.00
1978	328	2	51	15.20	-72.07	76.34	14	0.13451E-08	-1.00
1978	329	15	30	7.00	-13.00	-1.00	3	0.88530E-08	-12.30
1978	331	21	14	12.10	-29.50	2.50	3	0.16580E-08	0.90
1978	331	21	51	11.00	-28.00	1.40	3	0.20130E-08	-0.90
1978	332	3	28	13.40	-77.80	73.65	14	0.14613E-08	-1.30
1978	334	7	13	11.40	-28.25	10.90	3	0.17450E-08	0.40
1978	335	15	1	14.30	82.07	55.94	14	0.28457E-08	-2.90
1978	335	18	10	30.04	132.37	-32.68	12	0.30790E-08	-1.60
1978	336	5	27	13.50	-82.50	73.45	14	0.24203E-08	-0.80
1978	337	7	7	15.50	-76.50	36.70	3	0.18690E-08	3.90
1978	338	6	15	35.44	-150.53	12.83	12	0.27430E-08	2.20
1978	339	2	23	9.20	-29.50	-0.50	3	0.24460E-08	1.50
1978	339	16	21	14.40	-82.50	28.50	3	0.21820E-08	1.10
1978	339	17	8	14.10	77.70	55.69	14	0.21817E-08	1.10
1978	340	6	46	12.80	-87.14	71.69	14	0.23662E-08	0.30
1978	342	2	20	15.00	-84.25	19.80	3	0.12560E-08	0.60
1978	343	18	40	14.70	73.37	56.84	14	0.11471E-08	-1.30
1978	344	9	12	13.10	-90.00	72.67	14	0.17095E-08	-0.10
1978	344	12	30	15.60	-84.50	35.60	3	0.17730E-08	0.80

1978	346	7	19	9.50	-36.75	7.50	3	0.47670E-08	1.70
1978	346	19	2	12.90	-93.50	19.00	3	0.52240E-08	1.50
1978	347	22	2	13.20	69.18	54.63	14	0.24166E-08	1.80
1978	348	8	17	8.90	-98.75	63.46	14	0.51533E-08	8.00
1978	348	14	58	11.70	-44.75	7.80	3	0.66960E-08	3.50
1978	348	17	0	30.42	146.12	-22.21	12	0.46000E-08	5.40
1978	349	4	31	13.10	-44.75	24.50	3	0.00000E+00	99.90
1978	349	6	50	15.50	-44.75	31.30	3	0.00000E+00	99.90
1978	351	14	3	13.30	-98.50	30.80	3	0.35510E-08	4.30
1978	352	0	34	12.60	64.47	53.68	14	0.13160E-07	11.20
1978	353	8	59	12.40	-50.50	12.90	3	0.29440E-08	-1.70
1978	355	17	52	12.10	-53.50	-0.70	3	0.27410E-08	-0.80
1978	356	4	32	9.80	61.11	47.78	14	0.00000E+00	99.90
1978	356	15	44	13.70	-104.74	73.30	14	0.43331E-08	-3.20
1978	360	11	50	13.70	-61.00	12.00	3	0.17130E-08	3.10
1978	360	12	15	13.60	-60.50	11.80	3	0.11370E-08	0.60
1978	363	4	45	37.11	-162.70	21.30	12	0.00000E+00	99.90
1978	364	6	52	12.10	52.19	52.60	14	0.38621E-08	8.90
1978	364	20	11	14.20	-112.07	73.64	14	0.35906E-08	-4.50
1979	3	8	26	12.70	47.16	53.67	14	0.14340E-08	-3.50
1979	3	12	30	17.51	-106.14	19.00	6	0.23030E-08	-3.60
1979	3	22	6	14.10	-116.57	73.40	14	0.27532E-08	-5.90
1979	4	1	0	22.16	-94.54	14.37	6	0.29710E-08	-7.30
1979	4	2	30	22.20	-93.19	14.08	6	0.68540E-09	-8.10
1979	4	3	20	22.26	-92.65	13.77	6	0.58520E-09	-8.20
1979	4	4	30	22.33	-91.85	13.47	6	0.53390E-09	-8.20
1979	5	4	30	9.89	-62.92	-1.16	6	0.00000E+00	99.90
1979	7	11	13	11.60	43.85	52.15	14	0.42744E-08	-2.30
1979	7	12	47	9.30	44.36	46.79	14	0.73010E-08	-3.10
1979	7	14	30	9.04	-62.30	-2.53	6	0.75610E-08	-5.50
1979	8	2	17	16.50	-118.61	76.86	14	0.21568E-08	5.20
1979	9	22	0	11.51	-71.25	0.50	6	0.21390E-08	2.50
1979	11	1	20	39.46	-156.53	29.86	12	0.15590E-08	-1.30
1979	12	6	30	12.38	-75.96	2.31	6	0.00000E+00	-3.70
1979	13	6	0	19.69	-111.52	17.14	6	0.21820E-08	-0.30
1979	14	14	30	13.68	-81.16	2.51	6	0.26110E-08	-0.70
1979	15	16	0	10.60	34.85	49.89	14	0.31041E-08	0.50
1979	16	5	59	16.10	-128.88	75.68	14	0.24728E-08	0.30
1979	16	15	0	19.81	-95.27	8.71	6	0.14510E-08	-1.10
1979	19	10	5	13.06	-85.16	2.63	6	0.24780E-08	1.20
1979	19	10	45	12.17	-83.87	1.41	6	0.23740E-08	-2.50
1979	20	8	30	16.50	-132.95	76.09	14	0.14470E-08	-1.10
1979	21	17	0	15.15	-91.52	4.17	6	0.24390E-08	-1.10
1979	23	0	0	40.03	-169.27	29.58	12	0.28120E-08	-3.80
1979	23	22	2	7.40	27.47	40.42	14	0.22899E-08	-11.80
1979	24	3	30	14.13	-92.03	3.25	6	0.46660E-08	-5.00
1979	24	9	23	15.30	-138.95	74.38	14	0.26973E-08	1.00
1979	25	8	0	21.04	-120.24	15.72	6	0.23380E-08	5.50
1979	30	8	45	22.14	-120.74	13.58	6	0.38380E-08	-2.20
1979	30	10	0	22.41	-119.97	13.16	6	0.28010E-08	99.90
1979	31	3	0	17.78	-105.77	6.46	6	0.24950E-08	-1.00
1979	31	5	15	16.31	-103.52	4.92	6	0.20410E-08	2.00
1979	31	6	30	15.23	-101.38	3.76	6	0.20940E-08	99.90
1979	31	23	25	12.90	16.26	54.20	14	0.10065E-08	-2.10
1979	32	20	0	34.06	132.74	3.57	12	0.51070E-09	2.80
1979	34	18	20	19.91	-132.88	16.34	6	0.20230E-08	-3.20
1979	34	20	20	40.49	176.43	28.89	12	0.11980E-07	0.90
1979	34	22	0	40.66	178.27	29.53	12	0.11890E-07	99.90
1979	35	3	20	41.12	-176.22	31.25	12	0.49320E-08	1.60

1979	35	6	0	41.26	-174.34	31.75	12	0.55600E-08	-2.40
1979	35	11	30	41.55	-169.65	32.88	12	0.21010E-08	0.90
1979	35	21	20	18.12	-111.15	6.34	6	0.25020E-08	-6.50
979	40	19	44	17.70	-155.32	76.68	14	0.14865E-08	0.40
1979	44	21	20	17.20	-160.71	75.76	14	0.21096E-08	1.90
1979	46	7	5	39.04	150.52	23.09	12	0.00000E+00	99.90
1979	46	8	10	39.15	151.44	23.52	12	0.00000E+00	99.90
1979	46	9	30	39.25	152.34	23.95	12	0.00000E+00	99.90
1979	48	6	27	13.00	0.00	54.36	14	0.10916E-08	5.20
1979	48	21	40	15.40	-165.96	72.85	14	0.24206E-08	1.80
1979	52	11	30	8.60	-2.77	44.03	14	0.99166E-08	14.90
1979	52	24	0	15.80	-169.92	73.16	14	0.00000E+00	99.90
1979	52	1	57	17.80	-167.91	75.98	14	0.00000E+00	99.90
1979	56	8	57	14.80	-9.46	57.68	14	0.94114E-09	0.60
1979	56	11	44	11.30	-8.13	51.22	14	0.10256E-08	-2.10
1979	57	4	28	19.30	-10.78	63.70	14	0.00000E+00	99.90
1979	59	9	40	39.94	154.70	30.08	12	0.16000E-08	-2.30
1979	61	0	5	40.79	-165.93	34.65	12	0.16990E-08	-3.50
1979	61	5	56	17.80	-178.70	75.73	14	0.00000E+00	99.90
1979	64	15	28	11.80	-16.39	52.69	14	0.15908E-08	0.50
1979	65	7	48	17.60	180.00	75.17	14	0.20997E-08	-4.00
1979	68	18	33	10.30	-20.85	49.16	14	0.35129E-08	2.40
1979	69	8	6	15.80	172.73	72.47	14	0.67810E-08	-0.20
1979	69	9	24	17.10	173.80	74.33	14	0.35954E-08	-3.00
1979	69	13	9	20.50	178.57	78.74	14	0.43951E-08	-1.30
1979	69	14	38	21.70	180.00	79.88	14	0.15660E-08	5.30
1979	72	2	20	39.80	150.79	32.29	12	0.15030E-08	-1.70
1979	72	5	15	39.93	153.98	32.90	12	0.15010E-08	-0.50
1979	72	9	30	40.09	159.31	33.74	12	0.14380E-08	0.50
979	72	13	0	40.18	162.56	34.11	12	0.13570E-08	0.20
1979	72	18	29	13.20	-25.20	55.17	14	0.12834E-08	2.90
1979	73	5	40	40.40	-178.97	34.36	12	0.00000E+00	99.90
1979	73	8	0	40.41	-176.90	34.21	12	0.00000E+00	99.90
1979	73	11	54	17.50	170.13	74.56	14	0.22071E-08	2.30
1979	80	23	30	11.90	-33.02	52.72	14	0.23115E-08	3.10
1979	81	13	5	14.60	160.11	69.96	14	0.60661E-08	12.80
1979	81	14	43	16.30	160.82	72.66	14	0.12662E-07	-16.00
1979	84	18	20	39.77	151.45	34.95	12	0.16790E-08	-2.20
1979	84	20	30	39.86	153.65	35.08	12	0.14110E-08	-6.10
1979	85	0	10	40.02	158.09	35.23	12	0.17850E-08	-8.10
1979	85	2	25	10.50	-36.53	49.97	14	0.16518E-08	-4.00
1979	85	21	0	20.40	161.15	77.72	14	0.14753E-08	-4.70
1979	86	23	30	39.91	-154.36	25.15	12	0.77440E-09	-3.60
1979	89	1	40	14.20	-41.82	57.49	14	0.82611E-09	-4.00
1979	89	4	2	11.00	-41.50	51.41	14	0.99806E-09	-6.00
1979	89	21	45	19.20	155.14	76.41	14	0.13804E-08	3.50
1979	93	3	50	14.10	-46.61	57.54	14	0.21408E-08	1.60
1979	97	7	10	14.10	-50.39	57.68	14	0.15074E-08	-1.90
1979	97	12	0	40.38	155.27	34.69	12	0.10970E-08	1.20
1979	98	0	38	16.00	143.13	71.79	14	0.14351E-08	2.70
1979	101	11	28	12.60	-50.95	57.22	14	0.21780E-08	0.50
1979	102	0	33	15.00	138.92	69.85	14	0.17802E-08	1.00
1979	105	11	31	12.00	-57.65	53.79	14	0.17759E-08	2.20
1979	109	13	43	11.80	-62.35	52.89	14	0.15334E-08	2.10
1979	109	20	10	41.03	148.29	34.33	12	0.11060E-08	0.30
1979	110	7	51	19.20	135.00	75.43	14	0.87347E-09	0.20
1979	113	14	15	13.30	-66.90	57.27	14	0.14847E-08	-2.90
1979	114	9	23	19.20	129.52	74.26	14	0.10562E-08	-0.70
1979	117	16	53	17.10	-72.47	62.17	14	0.40326E-08	-6.70

1979	122	5	40	41.13	145.39	33.10	12	0.00000E+00	99.90
1979	129	22	22	17.40	-85.00	62.61	14	0.25794E-08	2.60
1979	134	0	40	18.20	-89.28	63.99	14	0.19216E-08	3.10
979	134	15	30	40.73	141.44	31.09	12	0.25350E-08	2.40
1979	134	17	14	16.30	107.74	71.29	14	0.23539E-08	-0.60
1979	147	0	15	15.40	93.18	69.41	14	0.20972E-08	-2.80
1979	147	1	25	39.77	141.88	26.29	12	0.19770E-08	-0.80
1979	147	4	30	39.62	143.70	25.47	12	0.23690E-08	-1.80
1979	149	19	0	32.46	-157.19	-13.85	12	0.11860E-08	0.90
1979	149	19	45	21.95	120.74	11.30	6	0.22530E-08	4.80
1979	150	5	0	22.10	127.03	7.28	6	0.84560E-08	-0.50
1979	150	7	22	16.10	-105.32	61.94	14	0.38238E-08	7.90
1979	162	19	30	31.74	-136.87	-29.84	12	0.87790E-09	0.30
1979	168	9	30	16.48	90.00	16.57	6	0.23950E-08	1.90
1979	175	4	30	32.36	-144.00	-31.20	12	0.24160E-08	-1.90
1979	175	12	50	15.86	82.03	17.24	6	0.15840E-08	1.40
1979	177	17	0	10.85	67.25	21.64	6	0.57210E-08	-7.50
1979	184	19	30	37.23	132.55	10.54	12	0.18670E-08	-1.20
1979	184	22	25	12.40	63.75	26.70	3	0.15560E-08	-1.40
1979	186	11	1	18.20	102.50	-15.80	3	0.97800E-09	-2.40
1979	187	8	9	12.80	65.00	5.90	3	0.18160E-08	3.10
1979	187	13	0	32.62	-155.75	-31.93	12	0.14430E-08	-2.30
1979	191	3	43	19.00	95.75	-1.70	3	0.12630E-08	-0.10
1979	192	3	48	13.80	62.00	14.40	3	0.12320E-08	0.40
1979	193	16	30	17.00	97.25	-8.60	3	0.24130E-08	-9.10
1979	193	19	8	14.90	101.00	-2.20	3	0.55410E-08	-3.30
1979	196	3	12	16.30	96.00	-5.00	3	0.14730E-08	-0.40
1979	196	21	32	12.80	54.00	21.30	3	0.12590E-08	-2.20
1979	199	5	10	10.80	49.25	12.50	3	0.24960E-08	2.30
979	200	4	0	32.08	-153.88	-34.50	12	0.18340E-08	-2.70
1979	200	21	47	16.30	91.75	0.70	3	0.17940E-08	-3.70
1979	203	4	58	17.80	86.50	-11.40	3	0.13820E-08	0.40
1979	204	2	5	13.30	49.75	15.30	3	0.15530E-08	0.70
1979	205	16	7	16.60	86.25	-15.00	3	0.13850E-08	0.10
1979	206	10	28	12.40	47.50	1.50	3	0.16160E-08	2.70
1979	208	2	26	15.80	85.25	-7.90	3	0.38820E-08	-2.60
1979	208	16	42	8.40	34.00	16.40	3	0.11010E-07	-0.30
1979	211	3	11	10.10	36.50	16.30	3	0.27800E-08	5.00
1979	215	7	55	14.80	79.25	-26.20	3	0.16830E-08	-2.80
1979	215	22	23	10.50	31.50	19.30	3	0.98090E-09	-2.10
1979	215	23	35	11.90	35.50	17.40	3	0.89500E-09	-2.20
1979	217	15	0	16.50	73.75	-21.80	3	0.14230E-08	2.70
1979	217	17	20	14.50	78.00	-16.60	3	0.15090E-08	-1.80
1979	220	17	25	11.00	31.25	13.50	3	0.15980E-08	-4.90
1979	220	0	49	16.20	31.25	-7.90	3	0.00000E+00	99.90
1979	222	13	0	13.80	72.75	-30.40	3	0.13720E-08	-3.90
1979	223	3	15	11.60	30.25	13.80	3	0.15760E-08	2.00
1979	225	0	23	11.70	77.00	-13.70	3	0.60040E-08	7.90
1979	227	7	13	14.30	67.00	-27.20	3	0.17930E-08	1.50
1979	227	23	8	12.80	27.00	15.70	3	0.11990E-08	0.60
1979	229	18	14	12.60	69.75	-18.70	3	0.26240E-08	-5.10
1979	230	7	39	11.90	27.25	8.50	3	0.15920E-08	0.10
1979	232	3	13	13.00	66.25	-19.00	3	0.28450E-08	1.20
1979	232	14	2	7.90	16.25	18.80	3	0.73790E-08	4.40
1979	234	13	58	11.30	64.75	-32.80	3	0.53570E-08	-1.10
1979	235	2	20	11.90	20.25	15.30	3	0.11340E-08	0.90
1979	235	3	41	13.30	24.00	11.80	3	0.10820E-08	0.70
1979	235	19	0	30.87	144.58	-28.26	12	0.20250E-08	1.20
1979	236	23	11	11.60	65.00	-15.00	3	0.58340E-08	1.40

1979	239	8	24	11.90	57.25	-33.20	3	0.20230E-08	-2.00
1979	239	20	3	10.50	12.50	18.90	3	0.12850E-08	-0.80
1979	241	19	18	10.30	63.00	-21.40	3	0.62530E-08	-7.50
979	242	4	59	10.00	12.50	18.30	3	0.33930E-08	-4.30
1979	244	15	3	10.90	13.50	16.20	3	0.18880E-08	0.90
1979	246	12	31	11.90	48.75	-32.50	3	0.11620E-08	-4.20
1979	247	0	45	11.40	8.00	18.90	3	0.17270E-08	3.60
1979	247	22	10	29.87	142.47	-31.15	12	0.21020E-08	5.20
1979	248	21	29	12.40	51.25	-15.00	3	0.22900E-08	2.10
1979	249	10	5	11.30	12.50	16.10	3	0.14520E-08	-2.70
1979	251	8	24	10.60	46.00	-33.50	3	0.20780E-08	-3.00
1979	251	18	31	10.10	2.50	21.80	3	0.18510E-08	-1.20
1979	253	18	2	10.20	49.50	-23.60	3	0.27860E-08	-6.50
1979	254	4	11	10.60	3.25	21.40	3	0.21300E-08	-3.50
1979	256	3	5	10.80	45.75	-21.90	3	0.29990E-08	1.20
1979	256	13	11	10.20	4.25	22.50	3	0.17280E-08	2.20
1979	258	22	3	9.20	-9.00	24.70	3	0.40290E-08	1.60
1979	260	23	42	7.80	50.75	-22.90	3	0.77190E-08	-9.30
1979	261	5	50	7.00	-10.25	33.60	3	0.81530E-08	-0.50
1979	263	7	22	10.50	34.25	-28.30	3	0.36980E-08	2.30
1979	265	16	35	10.80	34.25	-22.80	3	0.27200E-08	7.40
1979	266	2	59	10.30	-9.00	25.20	3	0.24320E-08	-1.80
1979	268	2	3	10.50	35.00	-20.00	3	0.15540E-08	-6.30
1979	268	12	57	11.10	-3.25	26.20	3	0.16090E-08	1.40
1979	272	19	30	12.20	27.25	-14.30	3	0.94830E-09	2.30
1979	272	18	24	13.40	27.25	-13.50	3	0.00000E+00	99.90
1979	273	8	0	11.30	-7.25	28.10	3	0.15890E-08	-0.30
1979	278	4	15	13.20	-13.50	24.80	3	0.16790E-08	7.30
1979	280	2	22	8.70	27.25	-20.50	3	0.30120E-08	-4.90
979	280	11	21	10.50	-14.25	34.00	3	0.45300E-08	4.80
1979	282	10	50	9.80	16.00	-23.10	3	0.18760E-08	-3.90
1979	284	16	45	13.90	11.75	-10.40	3	0.79000E-09	1.90
1979	285	6	45	11.80	-19.25	31.90	3	0.16830E-08	3.20
1979	285	7	7	12.00	-19.25	32.00	3	0.00000E+00	99.90
1979	287	14	39	9.30	-28.50	38.00	3	0.32670E-08	-0.70
1979	287	16	0	33.45	-140.75	-0.29	12	0.39780E-08	0.60
1979	289	13	25	11.70	8.50	-14.00	3	0.12050E-08	-1.40
1979	290	2	26	13.10	-28.25	25.40	3	0.12050E-08	1.00
1979	291	22	12	12.50	8.75	-8.80	3	0.44460E-09	-1.90
1979	291	19	50	14.20	8.75	-6.60	3	0.00000E+00	99.90
1979	291	19	0	14.90	8.75	-5.70	3	0.00000E+00	99.90
1979	292	13	0	13.60	-22.50	32.00	3	0.74490E-09	5.50
1979	294	7	52	11.70	4.50	-11.80	3	0.14390E-08	-2.20
1979	294	19	24	11.00	-39.00	28.20	3	0.12200E-08	-6.70
1979	296	16	40	12.20	3.50	-9.50	3	0.13010E-08	-1.50
1979	297	4	53	11.10	3.50	34.40	3	0.00000E+00	99.90
1979	297	6	30	12.20	-31.75	35.10	3	0.13010E-08	-2.20
1979	299	16	6	12.40	-37.50	32.00	3	0.14090E-08	-0.10
1979	300	13	0	33.03	-139.25	10.69	12	0.15710E-08	1.80
1979	301	13	2	10.30	0.50	-12.20	3	0.15640E-08	-4.00
1979	301	23	18	10.60	-49.50	26.30	3	0.13470E-08	-0.50
1979	302	1	35	13.10	-42.50	25.20	3	0.10310E-08	-4.80
1979	304	9	57	12.10	-37.50	40.20	3	0.12410E-08	-2.30
1979	308	17	13	10.90	-5.00	-8.80	3	0.17960E-08	-2.40
1979	309	6	30	13.40	-44.00	35.40	3	0.11260E-08	1.40
1979	310	13	0	31.76	139.83	-30.40	12	0.22720E-08	1.40
1979	312	17	0	32.12	-152.19	10.19	12	0.23150E-08	6.10
1979	313	14	6	8.00	-3.75	-14.00	3	0.31970E-08	-6.80
1979	314	0	50	13.00	-56.75	22.90	3	0.20130E-08	0.80

1979	315	22	55	8.80	-4.50	-12.80	3	0.32600E-08	12.30
1979	318	6	4	11.70	-16.00	-3.60	3	0.59120E-09	-3.20
1979	319	2	2	18.10	-51.25	18.10	3	0.42340E-09	4.20
979	320	16	59	9.80	-13.50	-9.00	3	0.20000E-08	-4.30
1979	321	5	3	13.00	-61.75	31.80	3	0.17000E-08	-0.20
1979	321	5	55	13.90	-133.75	33.20	3	0.11150E-08	4.10
1979	322	23	1	13.70	-22.75	-6.20	3	0.57310E-09	2.20
1979	325	10	35	11.20	-21.50	-1.00	3	0.17040E-08	-2.90
1979	325	15	10	33.78	-138.96	25.55	12	0.13120E-08	-2.50
1979	326	23	47	22.10	-45.50	4.40	3	0.16150E-10	5.00
1979	327	0	59	22.00	-44.50	5.00	3	0.11620E-09	3.20
1981	1	19	13	15.60	86.78	23.89	15	0.14153E-08	-4.00
1981	2	12	25	15.30	82.75	68.81	15	0.18700E-08	-1.30
1981	5	17	45	16.30	83.02	24.66	15	0.16530E-08	1.30
1981	5	18	45	15.20	83.03	23.19	15	0.17707E-08	-0.70
1981	5	19	28	14.50	82.72	21.94	15	0.20130E-08	0.60
1981	6	12	20	16.10	78.50	67.86	15	0.13941E-08	99.90
1981	9	14	20	18.80	78.55	27.89	15	0.15021E-08	-2.60
1981	10	8	40	12.70	74.05	73.39	15	0.40512E-08	4.20
1981	18	7	25	13.30	65.43	73.14	15	0.24991E-08	0.90
1981	25	16	3	14.00	61.67	20.94	15	0.13963E-08	-2.90
1981	26	6	8	13.20	59.30	73.67	15	0.18416E-08	-0.60
1981	29	16	54	12.00	57.41	16.91	15	0.32436E-08	0.90
1981	30	5	54	13.70	55.12	72.93	15	0.14833E-08	-0.70
1981	33	16	57	10.90	53.46	14.82	15	0.30954E-08	-2.30
1981	34	5	13	13.80	51.12	73.21	15	0.18791E-08	1.70
1981	41	14	33	12.10	45.00	16.34	15	0.17108E-08	0.80
1981	42	2	53	12.80	43.67	76.22	15	0.19292E-08	99.90
1981	45	13	56	11.90	41.09	16.13	15	0.00000E+00	0.10
981	46	1	36	12.10	40.36	77.46	15	0.00000E+00	99.90
1981	49	13	49	11.10	36.34	14.04	15	0.21933E-08	1.10
1981	50	1	24	12.60	38.05	76.64	15	0.24271E-08	3.70
1981	53	13	26	10.80	32.18	13.37	15	0.30114E-08	7.80
1981	53	22	49	9.90	36.87	84.17	15	0.70381E-08	-6.90
1981	69	11	16	15.60	14.40	11.47	15	0.22599E-08	-0.90
1981	73	12	22	13.80	10.08	5.42	15	0.14555E-07	-2.10
1981	81	7	47	12.20	3.88	13.78	15	0.11760E-08	1.50
1981	81	20	58	13.30	10.89	78.49	15	0.10229E-08	-0.90
1981	89	18	59	12.30	3.01	81.14	15	0.38551E-08	-4.20
1981	93	7	9	10.30	-7.89	8.37	15	0.33674E-08	7.90
1981	97	5	44	11.20	-12.02	10.27	15	0.15546E-08	1.60
1981	117	16	41	14.70	-30.26	79.08	15	0.26492E-08	-1.20
1981	144	21	34	11.80	-57.26	9.26	15	0.00000E+00	99.90
1981	145	14	12	16.60	-59.30	77.06	15	0.27560E-08	-6.20
1981	148	20	4	12.80	-60.99	11.24	15	0.23528E-08	3.50
1981	149	13	23	16.40	-61.93	78.00	15	0.00000E+00	99.90
1981	152	18	47	13.40	-64.61	12.94	15	0.93760E-09	0.80
1981	156	18	40	12.70	-68.80	11.36	15	0.20926E-08	1.20
1981	157	9	50	14.20	-72.65	83.22	15	0.21045E-08	-1.80
1981	161	11	4	16.10	-74.58	79.22	15	0.14479E-08	0.20
1981	164	15	20	15.00	-76.35	16.25	15	0.14198E-08	-0.40
1981	165	7	49	13.20	-78.69	85.58	15	0.23379E-08	4.30
1981	168	14	24	15.30	-79.77	16.74	15	0.19875E-08	7.70
1981	169	10	6	16.40	-82.65	79.01	15	0.15024E-08	0.10
1981	172	15	16	13.60	-83.95	13.15	15	0.23409E-08	4.80
1981	173	9	19	16.30	-86.31	79.01	15	0.14104E-08	4.20
1981	176	14	40	13.50	-87.40	12.38	15	0.31009E-08	-4.90
1981	180	12	53	14.60	-91.22	15.08	15	0.37656E-08	-7.10
1981	184	9	28	17.30	-95.32	20.98	15	0.16232E-08	0.80

1981	188	10	44	15.50	-99.33	16.92	15	0.30844E-08	-0.50
1981	192	12	30	12.80	-102.82	10.77	15	0.42648E-08	3.80
1981	193	5	2	15.20	-104.74	82.59	15	0.31724E-08	-3.30
981	196	6	12	18.50	-106.41	22.96	15	0.00000E+00	99.90
1981	197	4	45	15.70	-108.43	81.87	15	0.13355E-08	-0.80
1981	200	4	6	19.70	-110.37	24.98	15	0.14865E-08	1.00
1981	201	3	16	14.90	-111.80	83.77	15	0.35447E-08	4.00
1981	204	4	0	19.10	-114.36	23.80	15	0.16764E-08	4.80
1981	208	0	3	21.50	-118.05	28.09	15	0.35353E-08	-2.70
1981	209	2	24	15.40	-119.36	83.16	15	0.26921E-08	1.60
1981	209	4	14	17.20	-119.05	79.64	15	0.32961E-08	1.40
1981	209	12	52	23.50	-119.25	68.57	15	0.15748E-08	-1.00
1981	209	14	32	24.40	-119.52	67.03	15	0.22456E-08	-2.30
1981	211	22	2	22.30	-121.72	29.78	15	0.20689E-08	-0.90
1981	213	3	55	17.50	-121.26	79.22	15	0.18922E-08	-4.00
1981	215	13	55	26.50	-125.41	36.66	15	0.14597E-08	-2.00
1981	216	0	34	14.70	-120.96	85.46	15	0.97400E-09	0.30
1981	219	10	18	27.50	-129.16	38.45	15	0.16595E-08	-4.80
1981	235	0	12	29.50	-144.15	43.56	15	0.33417E-08	-3.70
1981	237	1	13	18.30	-143.13	79.00	15	0.16844E-08	-2.50
1981	241	1	11	18.80	-145.49	78.08	15	0.21356E-08	-2.50
1981	241	2	31	19.90	-146.98	76.12	15	0.17942E-08	0.50
1981	241	5	41	22.10	-147.72	72.20	15	0.18719E-08	-3.30
1981	241	10	41	24.90	-148.63	67.34	15	0.20917E-08	-2.60
1981	241	12	11	25.60	-149.04	65.84	15	0.19964E-08	-4.90
1981	241	18	51	28.10	-149.68	60.94	15	0.10534E-08	-0.60
1981	241	23	21	29.40	-149.98	57.95	15	0.48490E-09	-0.80
1981	242	0	48	29.70	-149.95	56.99	15	0.11454E-08	-3.40
1981	242	2	26	30.00	-150.38	55.89	15	0.13806E-08	-6.00
981	242	5	51	30.40	-150.57	53.94	15	0.11119E-08	-4.20
1981	242	19	15	30.10	-151.48	45.89	15	0.11069E-08	-1.60
1981	242	22	31	29.60	-151.75	43.85	15	0.28966E-08	-1.60
1981	243	3	17	28.40	-152.01	40.69	15	0.49903E-08	-5.50
1981	243	6	41	27.20	-152.12	38.16	15	0.54057E-08	10.90
1981	244	20	53	15.40	-138.37	85.53	15	0.00000E+00	-1.30
1981	244	22	3	16.50	-143.13	83.05	15	0.18543E-08	4.00
1981	245	1	18	19.40	-149.74	77.56	15	0.11197E-08	-4.00
1981	246	21	43	29.60	-155.60	43.90	15	0.12072E-08	0.40
1984	240	23	30	8.20	22.25	0.50	4	0.59180E-08	-4.40
1984	241	13	5	8.99	2.05	4.42	11	0.00000E+00	99.90
1984	243	9	50	9.61	2.36	4.21	11	0.00000E+00	99.90
1984	245	6	15	9.81	1.19	4.11	11	0.00000E+00	99.90
1984	246	15	50	11.39	49.97	-0.38	11	0.00000E+00	99.90
1984	247	3	10	10.65	1.81	3.88	11	0.00000E+00	99.90
1984	248	15	5	7.36	60.88	-1.68	11	0.00000E+00	99.90
1984	248	23	30	10.79	0.48	3.79	11	0.00000E+00	99.90
1984	250	8	25	11.24	46.86	-0.55	11	0.00000E+00	99.90
1984	250	19	0	9.91	-3.60	3.91	11	0.00000E+00	99.90
1984	252	14	40	9.17	-7.43	4.00	11	0.00000E+00	2.10
1984	254	12	35	11.24	-3.23	3.50	11	0.00000E+00	99.90
1984	255	20	30	11.92	40.00	-0.57	11	0.22220E-08	1.30
1984	256	8	50	11.01	-5.47	3.51	11	0.16730E-08	0.80
1984	259	14	0	11.14	38.61	-0.94	11	0.00000E+00	99.90
1984	261	11	0	10.28	39.25	-1.23	11	0.00000E+00	99.90
1984	261	21	40	11.02	-10.54	3.31	11	0.00000E+00	99.90
1984	263	15	55	8.44	-19.92	3.82	11	0.00000E+00	99.90
1984	265	2	25	11.51	32.57	-1.04	11	0.22800E-08	0.80
1984	265	13	0	9.61	-17.88	3.48	11	0.36460E-08	1.80
1984	267	2	0	8.40	3.75	-0.50	4	0.78980E-08	-3.30

1984	267	0	20	9.53	36.12	-1.61	11	0.00000E+00	99.90
1984	267	7	50	7.56	-26.38	3.92	11	0.00000E+00	99.90
1984	268	20	15	10.02	32.95	-1.53	11	0.32700E-08	99.90
984	269	5	45	9.90	-20.13	3.26	11	0.00000E+00	99.90
1984	270	15	50	10.88	29.03	-1.37	11	0.00000E+00	99.90
1984	272	12	35	10.44	28.63	-1.52	11	0.00000E+00	99.90
1984	276	22	20	8.80	3.25	-1.50	4	0.56810E-08	1.90
1984	276	23	30	8.80	8.50	-1.90	4	0.62740E-08	3.30
1984	276	14	35	9.41	-28.54	3.04	11	0.33510E-08	-3.40
1984	278	11	20	10.06	-28.33	2.83	11	0.00000E+00	99.90
1984	280	18	0	8.20	8.50	-0.90	4	0.00000E+00	99.90
1984	280	23	10	8.30	13.75	-2.70	4	0.60800E-08	0.20
1984	280	6	55	9.17	-32.61	2.96	11	0.00000E+00	99.90
1984	282	4	30	10.83	-29.55	2.51	11	0.00000E+00	99.90
1984	283	14	5	10.52	18.12	-1.86	11	0.00000E+00	99.90
1984	285	11	10	9.48	19.40	-2.18	11	0.00000E+00	99.90
1984	289	12	50	9.99	-38.79	2.42	11	0.36020E-08	1.50
1984	291	11	20	12.49	-34.14	1.81	11	0.00000E+00	99.90
1984	293	5	20	9.79	-42.88	2.34	11	0.56390E-08	-2.80
1984	293	5	55	8.80	-8.50	-2.10	4	0.56390E-08	-2.80
1984	293	6	35	8.80	-5.50	-2.30	4	0.59100E-08	-1.90
1984	293	7	0	8.80	-5.50	-2.50	4	0.00000E+00	99.90
1984	293	8	0	8.30	-5.50	-3.00	4	0.00000E+00	99.90
1984	296	12	35	9.86	7.94	-2.39	11	0.00000E+00	99.90
1984	298	9	25	9.15	8.45	-2.59	11	0.00000E+00	99.90
1984	302	12	5	11.41	-47.18	1.58	11	0.22860E-08	2.10
1984	304	8	30	11.60	-48.47	1.47	11	0.00000E+00	99.90
1984	305	17	0	8.50	-5.50	-3.10	4	0.00000E+00	99.90
1984	306	5	15	5.90	15.25	-4.30	4	0.11520E-07	1.00
984	306	6	45	8.77	340.16	5.57	11	0.18460E-07	-9.30
1984	306	3	20	9.97	-54.56	1.77	11	0.64100E-08	-0.90
1984	309	11	0	9.18	-1.85	-2.92	11	0.00000E+00	99.90
1984	313	12	50	10.37	-60.40	1.37	11	0.00000E+00	99.90
1984	315	9	30	10.82	-61.02	1.19	11	0.00000E+00	99.90
1984	317	6	30	11.63	-60.75	0.96	11	0.30060E-08	0.90
1984	319	23	0	8.80	-30.75	-2.80	4	0.50900E-08	4.60
1984	320	0	40	8.80	-25.50	-3.10	4	0.75030E-08	7.10
1984	320	19	0	7.70	-12.50	-4.00	4	0.11870E-07	-3.40
1984	320	11	45	10.24	-15.26	-2.96	11	0.00000E+00	99.90
1984	321	4	20	7.80	315.93	2.27	4	0.00000E+00	-4.60
1984	326	11	0	10.66	-72.06	0.78	11	0.00000E+00	99.90
1984	328	9	45	13.18	-67.66	0.19	11	0.00000E+00	99.90
1984	330	4	55	12.16	-71.97	0.33	11	0.00000E+00	99.90
1984	333	9	10	10.79	-28.91	-3.19	11	0.00000E+00	99.90
1984	339	10	30	12.47	-80.14	-0.06	11	0.00000E+00	99.90
1984	341	8	35	14.06	-78.20	-0.44	11	0.00000E+00	99.90
1984	343	3	25	12.84	-82.89	-0.27	11	0.00000E+00	99.90
1984	343	5	35	14.62	-78.72	-0.61	11	0.00000E+00	99.90
1984	343	6	25	15.20	-77.36	-0.72	11	0.00000E+00	99.90
1984	344	10	40	10.90	-39.69	-3.44	11	0.00000E+00	99.90
1984	346	20	20	8.20	-38.25	-4.20	4	0.66140E-08	-7.50
1984	346	8	30	8.89	-35.44	-3.80	11	0.00000E+00	99.90
1984	354	7	5	14.51	-89.73	-1.00	11	0.00000E+00	99.90
1984	356	3	20	14.50	-91.63	-1.06	11	0.22190E-08	99.90
1984	357	9	40	9.43	-47.77	-3.88	11	0.00000E+00	99.90
1984	358	22	40	15.91	-66.21	-3.07	11	0.25400E-08	-1.70
1984	359	3	45	11.93	-56.63	-3.60	11	0.00000E+00	0.30
1984	360	20	0	15.23	-66.40	-3.22	11	0.21520E-08	99.90
1984	363	11	5	13.54	-101.13	-1.12	11	0.00000E+00	99.90

1984	364	18	5	10.15	-57.30	-3.93	11	0.00000E+00	99.90
1985	16	2	55	16.87	-110.99	-2.35	11	0.00000E+00	99.90
1985	18	2	20	18.04	-109.09	-2.66	11	0.42050E-08	1.50
985	124	15	20	13.56	51.38	38.18	8	0.00000E+00	-2.40
1985	128	0	19	15.77	90.86	9.54	8	0.00000E+00	99.90
1985	128	14	4	10.86	41.11	40.76	8	0.22461E-08	-3.20
1985	132	3	4	13.48	89.26	6.90	8	0.00000E+00	99.90
1985	132	14	32	10.40	35.98	41.30	8	0.00000E+00	99.90
1985	136	1	16	16.28	82.50	9.77	8	0.15968E-08	0.50
1985	136	15	9	10.37	33.46	40.84	8	0.00000E+00	99.90
1985	140	3	8	14.83	79.88	8.32	8	0.20638E-08	-0.30
1985	140	14	58	10.11	42.04	36.14	8	0.24219E-08	5.60
1985	144	5	43	12.61	77.64	5.59	8	0.00000E+00	99.90
1985	144	14	58	7.99	17.24	44.21	8	0.00000E+00	99.90
1985	148	6	5	13.25	73.50	5.60	8	0.00000E+00	99.90
1985	148	16	8	8.35	12.75	44.40	8	0.00000E+00	99.90
1985	152	8	16	11.10	72.15	2.40	8	0.64456E-08	-1.00
1985	152	16	36	8.66	21.58	40.80	8	0.00000E+00	99.90
1985	156	8	25	12.07	66.39	3.72	8	0.28469E-08	0.40
1985	156	17	37	8.64	10.10	43.96	8	0.38336E-08	-1.90
1985	160	9	3	12.40	62.03	3.90	8	0.00000E+00	99.90
1985	160	17	48	8.31	16.96	40.25	8	0.00000E+00	99.90
1985	164	9	45	12.45	58.45	3.68	8	0.00000E+00	99.90
1985	164	20	11	9.97	3.69	43.48	8	0.00000E+00	99.90
1985	168	12	19	9.90	56.15	1.41	8	0.00000E+00	99.90
1985	168	19	19	8.05	0.23	43.73	8	0.00000E+00	99.90
1985	172	12	20	11.21	51.19	1.06	8	0.00000E+00	99.90
1985	172	20	43	8.31	-4.76	45.33	8	0.00000E+00	99.90
1985	172	20	50	16.50	102.68	-7.48	11	0.00000E+00	99.90
985	176	13	5	11.16	48.02	0.27	8	0.24332E-08	1.00
1985	176	21	26	8.22	-11.01	45.93	8	0.00000E+00	-2.00
1985	178	16	20	18.64	105.51	-7.42	11	0.27713E-08	-5.80
1985	178	18	5	18.80	107.31	-7.35	11	0.00000E+00	-6.50
1985	180	18	30	18.55	109.96	-7.19	11	0.28231E-08	0.30
1985	180	13	49	11.04	43.53	0.10	8	0.35689E-08	99.90
1985	180	22	15	8.36	-16.91	47.59	8	0.22917E-08	0.10
1985	184	14	53	10.77	39.67	-0.67	8	0.00000E+00	99.90
1985	184	22	43	7.76	-21.13	48.25	8	0.00000E+00	99.90
1985	187	13	50	15.91	87.79	-7.88	11	0.31112E-08	-0.60
1985	188	15	50	10.64	36.09	-1.29	8	0.21102E-08	-0.10
1985	189	15	50	18.24	93.25	-7.72	11	0.26261E-08	-5.00
1985	189	16	55	18.47	94.42	-7.68	11	0.21875E-08	-3.30
1985	189	0	57	9.89	-18.62	46.26	8	0.22644E-08	3.90
1985	192	17	45	8.89	35.14	-5.28	8	0.80343E-08	-0.10
1985	193	15	0	18.71	96.90	-7.45	11	0.10684E-08	-10.50
1985	193	17	30	18.32	99.54	-7.29	11	0.17999E-08	-9.10
1985	193	19	30	17.76	101.78	-7.14	11	0.00000E+00	-4.52
1985	193	0	44	7.77	-31.33	46.12	8	0.00000E+00	99.90
1985	194	17	25	11.54	70.47	-8.16	11	0.36082E-08	-5.80
1985	196	16	22	11.83	26.50	0.36	8	0.00000E+00	99.90
1985	197	1	40	8.81	-30.49	47.90	8	0.00000E+00	99.90
1985	198	9	45	11.35	66.50	-8.26	11	0.00000E+00	-2.28
1985	200	18	30	10.55	24.08	-3.13	8	0.00000E+00	99.90
1985	201	3	6	9.19	-33.42	48.57	8	0.21590E-08	-0.60
1985	204	19	0	10.67	20.80	-3.81	8	0.22096E-08	-0.10
1985	205	4	13	9.74	-34.63	47.36	8	0.00000E+00	99.90
1985	207	15	30	11.83	59.57	-8.57	11	0.00000E+00	0.40
1985	208	19	43	10.63	16.67	-4.03	8	0.00000E+00	99.90
1985	209	4	27	9.13	-40.75	48.63	8	0.00000E+00	99.90

1985	212	21	28	9.15	14.04	-7.54	8	0.38899E-08	-3.80
1985	213	5	14	8.54	45.00	48.53	8	0.38155E-08	0.20
1985	216	20	53	11.37	8.01	-2.84	8	0.14800E-08	1.30
985	217	15	15	18.60	76.12	-7.72	11	0.00000E+00	0.70
1985	217	6	22	9.42	-48.68	49.03	8	0.00000E+00	99.90
1985	218	17	20	12.19	50.43	-8.85	11	0.00000E+00	-0.12
1985	220	22	2	10.65	5.33	-4.53	8	0.00000E+00	99.90
1985	220	13	30	12.10	48.56	-8.91	11	0.00000E+00	-1.04
1985	221	7	23	9.93	-51.37	48.24	8	0.00000E+00	99.90
1985	228	23	48	11.02	-2.55	-5.23	8	0.00000E+00	99.90
1985	229	9	34	10.23	-58.86	48.94	8	0.34922E-08	-4.00
1985	231	15	5	12.25	38.95	-9.20	11	0.00000E+00	2.62
1985	233	0	26	10.27	-6.84	-11.23	8	0.00000E+00	99.90
1985	233	10	29	10.41	-60.46	48.52	8	0.00000E+00	99.90
1985	233	11	30	12.39	37.73	-9.28	11	0.00000E+00	99.90
1985	234	17	35	12.58	78.01	-6.01	11	0.00000E+00	-0.07
1985	237	0	41	11.49	-10.64	-4.58	8	0.00000E+00	99.90
1985	237	1	20	10.58	-9.33	-6.48	8	0.00000E+00	99.90
1985	237	12	20	12.13	-61.23	46.61	8	0.17395E-08	1.20
1985	241	3	21	9.01	-11.44	-9.22	8	0.56296E-08	3.10
1985	241	12	33	11.18	-68.15	47.97	8	0.38831E-08	1.50
1985	249	3	55	9.69	-19.57	-9.51	8	0.00000E+00	99.90
1985	249	15	25	13.85	-65.23	44.68	8	0.00000E+00	99.90
1985	253	4	47	10.17	-24.77	-7.85	8	0.00000E+00	99.90
1985	253	16	24	13.04	-75.01	45.89	8	0.25701E-08	-1.90
1985	257	5	29	10.61	-27.82	-8.78	8	0.00000E+00	99.90
1985	257	7	16	8.41	-27.35	-9.53	8	0.00000E+00	99.90
1985	257	15	49	11.02	-83.54	47.69	8	0.00000E+00	99.90
1985	261	6	14	10.43	-31.30	-9.19	8	0.00000E+00	99.90
985	261	18	13	13.20	-84.66	46.35	8	0.00000E+00	99.90
1985	265	6	31	11.25	-36.74	-7.37	8	0.27612E-08	0.40
1985	265	19	59	14.24	-85.97	45.47	8	0.00000E+00	99.90
1985	268	10	45	10.40	0.85	-10.49	11	0.33036E-08	3.50
1985	269	8	26	9.81	-37.91	-11.24	8	0.00000E+00	99.90
1985	269	20	58	14.29	-90.15	45.00	8	0.18963E-08	-0.50
1985	273	12	10	11.63	44.54	-5.36	11	0.00000E+00	99.90
1985	273	7	17	11.99	-45.00	-7.67	8	0.00000E+00	99.90
1985	273	21	34	13.60	-94.76	44.90	8	0.00000E+00	99.90
1985	279	12	0	10.06	-10.05	-10.88	11	0.34886E-08	-1.10
1985	281	9	1	12.25	-54.66	-6.66	8	0.00000E+00	99.90
1985	281	9	20	11.20	-8.64	-10.77	11	0.00000E+00	99.90
1985	281	23	33	14.48	-101.56	45.60	8	0.26874E-08	0.10
1985	285	10	25	11.44	-56.66	-9.05	8	0.00000E+00	99.90
1985	286	11	35	9.62	37.92	-4.20	11	0.00000E+00	4.55
1985	289	10	42	11.92	-61.70	-7.71	8	0.34352E-08	-3.80
1985	290	1	42	14.64	-108.08	45.25	8	0.00000E+00	99.90
1985	292	9	50	9.84	-22.51	-11.38	11	0.32533E-08	-0.50
1985	293	11	31	11.62	-64.32	-6.92	8	0.25894E-08	1.80
1985	294	2	5	14.04	-113.96	45.44	8	0.00000E+00	1.80
1985	297	12	3	12.43	-69.73	-6.60	8	0.00000E+00	99.90
1985	297	13	5	10.01	26.68	-4.16	11	0.00000E+00	99.90
1985	298	4	4	15.79	-116.24	44.14	8	0.00000E+00	99.90
1985	301	12	47	12.50	-72.15	-7.35	8	0.28252E-08	1.20
1985	302	4	27	14.87	-120.58	46.58	8	0.38750E-08	-6.40
1985	303	11	20	9.82	-32.69	-11.71	11	0.41155E-08	4.50
1985	305	7	0	9.04	-36.87	-11.90	11	0.00000E+00	99.90
1985	305	14	17	11.32	-76.29	-8.98	8	0.26260E-08	-3.70
1985	306	6	0	15.78	-122.01	44.18	8	0.00000E+00	99.90
1985	310	10	35	10.28	14.04	-4.05	11	0.00000E+00	99.90

1985	323	9	30	9.21	5.18	-2.96	11	0.00000E+00	99.90
1985	334	11	15	8.96	-4.32	-2.48	11	0.00000E+00	99.90
1985	342	6	40	11.70	-64.27	-12.14	11	0.00000E+00	99.90
985	347	10	25	7.00	-8.62	-0.10	11	0.00000E+00	99.90
1985	353	7	20	10.64	-78.24	-12.70	11	0.00000E+00	99.90
1985	355	6	20	13.39	-72.83	-11.85	11	0.00000E+00	99.90
1985	358	10	25	9.34	-28.13	-2.07	11	0.00000E+00	99.90
1986	1	7	35	13.13	-84.15	-12.01	11	0.39157E-08	-0.30
1986	3	5	20	14.36	-82.93	-11.59	11	0.00000E+00	99.90
1986	4	9	5	12.55	-47.44	-4.02	11	0.00000E+00	99.90
1986	6	6	55	10.94	-45.12	-2.91	11	0.00000E+00	1.20
1986	14	7	30	14.78	-92.67	-11.54	11	0.19527E-08	-0.80
1986	16	5	25	15.85	-91.80	-11.09	11	0.00000E+00	99.90
1986	17	9	5	10.17	-53.63	-2.12	11	0.00000E+00	99.90
1986	27	5	50	15.15	-104.34	-11.42	11	0.49626E-08	-2.60
1986	30	6	15	10.87	-68.16	-2.36	11	0.00000E+00	99.90
1986	31	2	10	17.21	-102.48	-10.41	11	0.17610E-08	0.20

Gail L. Schneider

From: "Gail L. Schneider" <gail@mail630.gsfc.nasa.gov>
To: "Kent Hills" <hills@mail630.gsfc.nasa.gov>
Cc: "Gail L. Schneider" <gail@mail630.gsfc.nasa.gov>; "Sharlene" <srhodes@mail630.gsfc.nasa.gov>
Sent: Monday, April 25, 2005 8:51 AM
Subject: Re: SM-21A appears to be missing a file

Hi Kent,

According to DSC 0839, we only received 1 file of data from Dave Sibeck back in the early
90's. I do not know what media form the original data was received on, only 1 file
was written to CD. The DSC states that this CD contains an updated version of the data that
was originally submitted in the late 70's by D. Fairfield. My only guess is that the data were intended
to replace the magnetopause crossing data only not the bow shock crossing or we dropped a file
when the data were copied from the original media to CD. I also checked our inventory to
see if I could find any records of the original tape that was submitted by D. Fairfield back in the
late 70's, nothing in IDA.

I went back and checked Ralph's old e-mail and found this message on the subject
dated 28-Oct-2003.
From: NCF::POST 28-OCT-2003 12:26:10.22

To: PATROSS

CC: POST

Subj: SM-21A

Pat, we need to incorporate SM-21A into JEDS. We also need to include Dave

Sibeck as equal with Don Fairfield. Can you do this. We also need the BD from

NSDF moved over.

Also no BD in NIMSs.....Gail

----- Original Message -----
From: "Kent Hills" <hills@mail630.gsfc.nasa.gov>
To: <gail@mail630.gsfc.nasa.gov>
Sent: Friday, April 22, 2005 7:20 PM
Subject: SM-21A appears to be missing a file

> Gail,

> The former NSD data set SM-21A, which Joe King wants to use, doesn't have
> all of its data. There apparently should be two files of event listings:
> one shows crossings of the bow shock; the other shows crossings of the
> magnetopause. Would you please check with backup copies of this data set,
> to see if perhaps a 2nd file somehow got lost?
>
> Thanks,
> Kent

Gail L. Schneider

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Thanks,
Kent