#314

APOLLO 15 AND 16

JSC RAW DOPPLER FREQUENCY

71-063D-03A

72-031D-03A

APOLLO 15 SUBSATELLITE

RAW DOPPLER FREQ. DATA TAPES

71-063D-03A

This data set has been restored . There were originally 663 7-TRACK, 800 BPI tapes written in Binary. There are 104 restored tapes . The DR tapes are 3480 cartidges and the DS tapes are 9-track, 6250 BPI. The following tapes were unable to be copied; D019255, D014757, D018943, D018301, D014690, D014734, D014919, D014890, D014786, D014648. The tapes are not in time sequential order. The original tapes were created on a 1900 computer and the restored tapes were created on a MRS computer. The DR and DS numbers along with the corresponding D numbers and time spans are as follows:

DR #	DS#	D#	FILES	TIME SPAN
DR005991	DS005991	D019256	1	08/06/71 - 08/06/71 (1)
		D014597	2	08/08/71 - 08/08/71 (2)
		D014601	3	08/09/71 - 08/09/71
		D019252	4	08/09/71 - 08/10/71
		D014596	5	08/10/71 - 08/10/71
		D014594	6	08/11/71 - 08/11/71 (3)
		D014992	7	08/11/71 - 08/11/71 (4)
DR005992	DS005992	D019500	1	08/11/71 - 08/11/71 (5)
		D019502	2	08/13/71 - 08/13/71 (6)
		D014598	3	08/13/71 - 08/13/71 (7)
		D014600	4	08/14/71 - 08/14/71 (8)
		D019254	5	08/14/71 - 08/14/71 (9)
DR005993	DS005993	D019499	1	08/14/71 - 08/15/71 (10)
		D014599	2	08/15/71 - 08/15/71 (11)
		D014665	3	08/16/71 - 08/16/71 (12)
		D019253	4	08/16/71 - 08/16/71 (13)
		D014664	5	08/17/71 - 08/17/71 (14)
		D014663	6	08/18/71 - 08/18/71
DR005994	DS005994	D018662	1	08/18/71 - 08/18/71 (15)
		D014996	2	08/19/71 - 08/19/71
		D019501	3	08/19/71 - 08/19/71
		D014662	4	08/19/71 - 08/19/71 (16)
		D018950	5	08/20/71 - 08/20/71
		D019257	6	08/20/71 - 08/20/71 (17)
		D018552	7	08/21/71 - 08/21/71

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DR #	DS#	D#	FILES	TIME SPAN
DR005995	DS005995	D014661	1	08/21/71 - 08/21/71
		D014660	2	08/22/71 - 08/22/71 (18)
		D018661	3	08/22/71 - 08/22/71 (19)
		D018627	4	08/23/71 - 08/23/71 (20)
		D018621	5	08/24/71 - 08/24/71 (21)
		D018625	6	08/25/71 - 08/25/71 (22)
DR005996	DS005996	D019258	1	08/26/71 - 08/26/71 (23)
		D014971	2	08/28/71 - 08/28/71
		D018549	3	08/28/71 - 08/28/71 (24)
		D015014	4	08/28/71 - 08/28/71
		D018550	5	08/29/71 - 08/29/71 (25)
		D014970	6	08/30/71 - 08/30/71
DR005997	DS005997	D018551	1	08/30/71 - 08/30/71
		D014969	2	08/31/71 - 08/31/71 (26)
		D018556	3	08/31/71 - 08/31/71 (27)
		D018626	4	09/01/71 - 09/01/71
		D019503	5	09/02/71 - 09/02/71 (28)
		D019504	6	09/03/71 - 09/03/71 (29)
DR005998	DS005998	D018928	1	09/04/71 - 09/04/71
		D018548	2	09/05/71 - 09/05/71
		D014878	3	09/06/71 - 09/06/71 (30)
		D018546	4	09/07/71 - 09/07/71 (31)
		D018623	5	09/09/71 - 09/09/71
		D014874	6	09/10/71 - 09/10/71
DR005999	DS005999	D014873	1	09/11/71 - 09/11/71 (32)
		D014872	2	09/12/71 - 09/12/71 (33)
		D018934	3	09/12/71 - 09/12/71
		D014871	4	09/13/71 - 09/13/71 (34)
		D018939	5	09/14/71 - 09/14/71 (35)
		D014697	6	09/14/71 - 09/14/71 (36)
DR006000	DS006000	D014696	1	09/15/71 - 09/15/71 (37)
		D019274	2	09/15/71 - 09/15/71
		D018628	3	09/16/71 - 09/16/71 (38)
		D014999	4	09/17/71 - 09/17/71
		D018937	5	09/17/71 - 09/17/71 (39)
		D014694	6	09/17/71 - 09/17/71 (40)

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DR #	DS#	D#	FILES	TIME SPAN
DR006001	DS006001	D014693	1	09/19/71 - 09/19/71
		D018936	2	09/19/71 - 09/19/71
		D018935	3	09/20/71 - 09/20/71 (41)
		D018931	4	09/21/71 - 09/21/71
		D014691	5	09/21/71 - 09/21/71
		D014641	6	09/23/71 - 09/23/71 (42)
		D014640	7	09/24/71 - 09/24/71
DR006002	DS006002	D018927	1	09/24/71 - 09/24/71 (43)
		D014639	2	09/25/71 - 09/26/71 (44)
		D014638	3	09/26/71 - 09/26/71
		D014994	4	09/26/71 - 09/26/71 (45)
		D018938	5	09/26/71 - 09/26/71 (46)
		D018932	6	09/27/71 - 09/27/71
		D014637	7	09/27/71 - 09/27/71 (47)
DR006003	DS006003	D014630	1	09/28/71 - 09/28/71
		D014632	2	09/28/71 - 09/28/71 (48)
		D014634	3	09/28/71 - 09/28/71
		D014635	4	09/28/71 - 09/28/71
		D014633	5	09/28/71 - 09/28/71 (49)
		D014631	6	09/28/71 - 09/28/71
		D015004	7	09/28/71 - 09/28/71 (50)
		D018289	8	09/28/71 - 09/28/71
DR006004	DS006004	D015024	1	09/29/71 - 09/29/71 (51)
		D018288	2	09/29/71 - 09/29/71 (52)
		D014625	3	09/29/71 - 09/29/71
		D014636	4	09/29/71 - 09/29/71 (53)
		D014627	5	09/29/71 - 09/29/71
		D014629	6	09/29/71 - 09/29/71
		D014628	7	09/29/71 - 09/29/71
DR006005	DS006005	D014789	1	09/30/71 - 09/30/71 (54)
		D014790	2	09/30/71 - 09/30/71 (55)
		D018290	3	09/30/71 - 09/30/71
		D015003	4	09/30/71 - 09/30/71
		D014791	5	09/30/71 - 09/30/71
		D014792	6	09/30/71 - 09/30/71
		D014787	7	10/01/71 - 10/01/71
		D018287	8	10/01/71 - 10/01/71 (56)

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DR #	DS#	D#	FILES	TIME SPAN
DR006006	DS006006	D014712	1	10/01/71 - 10/01/71
		D014713	2	10/01/71 - 10/01/71
		D014705	3	10/02/71 - 10/02/71
		D014711	4	10/02/71 - 10/02/71 (57)
		D014707	5	10/02/71 - 10/02/71
		D014993	6	10/02/71 - 10/02/71 (58)
		D018286	7	10/03/71 - 10/03/71
		D018291	8	10/03/71 - 10/03/71
		D014646	9	10/03/71 - 10/03/71 (59)
DR006007	DS006007	D014647	1	10/03/71 - 10/03/71 (60)
		D014709	2	10/03/71 - 10/03/71
		D014642	3	10/04/71 - 10/04/71
		D014645	4	10/04/71 - 10/04/71
		D014735	5	10/04/71 - 10/04/71 (61)
		D014644	6	10/04/71 - 10/04/71
		D014643	7	10/04/71 - 10/04/71 (62)
		D018545	8	10/04/71 - 10/04/71
		D018292	9	10/05/71 - 10/05/71
DR006008	DS006008	D014733	1	10/06/71 - 10/06/71
		D014732	2	10/07/71 - 10/07/71
		D015005	3	10/07/71 - 10/07/71
		D018293	4	10/07/71 - 10/07/71
		D018554	5	10/10/71 - 10/10/71
		D014730	6	10/10/71 - 10/10/71
DR006009	DS006009	D014729	1	10/11/71 - 10/11/71 (63)
		D014721	2	10/13/71 - 10/13/71 (64)
		D014720	3	10/14/71 - 10/14/71
		D018547	4	10/14/71 - 10/14/71
		D019505	5	10/15/71 - 10/15/71
		D014719	6	10/15/71 - 10/15/71
DR006010	DS006010	D014718	1	10/16/71 - 10/16/71
		D015002	2	10/16/71 - 10/16/71 (65)
		D018294	3	10/18/71 - 10/18/71
		D014716	4	10/19/71 - 10/19/71
		D014715	5	10/20/71 - 10/20/71 (66)
		D018555	6	10/20/71 - 10/20/71

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DR #	DS#	D#	FILES	TIME SPAN
DR006011	DS006011	D019272	1	10/21/71 - 10/21/71 (67)
		D014714	2	10/21/71 - 10/21/71
		D014831	3	10/22/71 - 10/22/71
		D019267	4	10/22/71 - 10/22/71 (68)
		D019268	5	10/23/71 - 10/23/71 (69)
		D014829	6	10/24/71 - 10/24/71 (70)
DR006012	DS006012	D014828	1	10/25/71 - 10/25/71 (71)
		D015040	2	10/25/71 - 10/25/71 (72)
		D019269	3	10/25/71 - 10/25/71
		D019270	4	10/26/71 - 10/26/71 (73)
		D018929	5	10/27/71 - 10/27/71
		D014826	6	10/28/71 - 10/28/71 (74)
DR006013	DS006013	D018622	1	10/28/71 - 10/28/71 (75)
		D014825	2	10/29/71 - 10/29/71 (76)
		D018933	3	10/29/71 - 10/29/71 (77)
		D014824	4	10/30/71 - 10/30/71 (78)
		D018624	5	10/30/71 - 10/30/71
		D014754	6	10/31/71 - 10/31/71
		D014752	7	11/02/71 - 11/02/71
DR006014	DS006014	D018930	1	11/02/71 - 11/02/71 (79)
		D018660	2	11/03/71 - 11/03/71
		D019271	3	11/03/71 - 11/03/71
		D014751	4	11/03/71 - 11/03/71
		D014748	5	11/04/71 - 11/04/71 (80)
		D018557	6	11/04/71 - 10/04/71 (81)
		D015011	7	11/05/71 - 11/05/71 (82)
DR006015	DS006015	D018666	1	11/05/71 - 11/05/71
		D014747	2	11/05/71 - 11/05/71
		D018665	3	11/06/71 - 11/06/71 (83)
		D018664	4	11/07/71 - 11/07/71 (84)
DR006016	DS006016	D018926	1	11/07/71 - 11/07/71
		D014750	2	11/07/71 - 11/07/71 (85)
		D014749	3	11/08/71 - 11/08/71
		D018553	4	11/08/71 - 11/08/71
		D018667	5	11/08/71 - 11/08/71
		D018663	6	11/09/71 - 11/09/71

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DR #	DS#	D#	FILES	TIME SPAN
DR006017	DS006017	D018668	1	11/09/71 - 11/09/71 (86)
		D014689	2	11/09/71 - 11/09/71
		D014688	3	11/10/71 - 11/10/71 (87)
		D018629	4	11/10/71 - 11/10/71 (88)
		D018631	5	11/10/71 - 11/10/71 (89)
		D018559	6	11/11/71 - 11/11/71
DR006018	DS006018	D018630	1	11/11/71 - 11/11/71 (90)
		D014687	2	11/11/71 - 11/11/71 (91)
		D014686	3	11/12/71 - 11/12/71
		D015000	4	11/12/71 - 11/12/71 (92)
		D018632	5	11/12/71 - 11/12/71
		D014684	6	11/15/71 - 11/15/71 (93)
DR006019	DS006019	D014683	1	11/16/71 - 11/16/71
		D014682	2	11/17/71 - 11/17/71 (94)
		D018558	3	11/17/71 - 11/17/71 (95)
		D014770	4	11/18/71 - 11/18/71 (96)
		D014769	5	11/19/71 - 11/19/71 (97)
		D019273	6	11/19/71 - 11/19/71
DR006020	DS006020	D015035	1	11/20/71 - 11/20/71
		D014768	2	11/20/71 - 11/20/71
		D014767	3	11/22/71 - 11/22/71 (98)
		D014766	4	11/23/71 - 11/23/71
		D014765	5	11/24/71 - 11/24/71
		D014764	6	11/25/71 - 11/25/71 (99)
DR006021	DS006021	D014763	1	11/26/71 - 11/26/71 (100)
		D014623	2	11/27/71 - 11/27/71
		D014621	3	11/29/71 - 11/29/71
		D014622	4	11/29/71 - 11/29/71
		D015001	5	11/29/71 - 11/29/71 (101)
		D014620	6	11/30/71 - 11/30/71 (102)
		D014617	7	12/01/71 - 12/01/71
DR006022	DS006022	D014619	1	12/01/71 - 12/01/71
		D014882	2	12/01/71 - 12/01/71 (103)
		D014883	3	12/01/71 - 12/01/71
		D014880	4	12/02/71 - 12/02/71
		D014886	5	12/02/71 - 12/02/71 (104)
		D014885	6	12/02/71 - 12/02/71 (105)
		D014881	7	12/02/71 - 12/02/71

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DR #	DS#	D#	FILES	TIME SPAN
DR006023	DS006023	D015028	1	12/02/71 - 12/02/71
		D014884	2	12/02/71 - 12/02/71
		D014868	3	12/03/71 - 12/03/71
		D014879	4	12/03/71 - 12/03/71 (106)
		D015029	5	12/03/71 - 12/03/71
		D014967	6	12/03/71 - 12/03/71 (107)
DR006024	DS006024	D014863	1	12/04/71 - 12/04/71 (108)
		D014864	2	12/04/71 - 12/04/71
		D014865	3	12/04/71 - 12/04/71 (109)
		D014867	4	12/04/71 - 12/04/71 (110)
		D015025	5	12/04/71 - 12/04/71 (111)
		D014758	6	12/04/71 - 12/04/71
		D014756	7	12/05/71 - 12/05/71 (112)
DR006025	DS006025	D014760	1	12/05/71 - 12/05/71
		D014762	2	12/05/71 - 12/05/71
		D014761	3	12/05/71 - 12/05/71
		D014998	4	12/05/71 - 12/06/71
		D014609	5	12/06/71 - 12/06/71
		D014755	6	12/06/71 - 12/06/71
		D014615	7	12/06/71 - 12/06/71 (113)
		D014616	8	12/06/71 - 12/06/71 (114)
DR006026	DS006026	D014614	1	12/06/71 - 12/06/71 (115)
		D014611	2	12/07/71 - 12/07/71 (116)
		D014657	3	12/07/71 - 12/07/71 (117)
		D014656	4	12/07/71 - 12/07/71 (118)
		D014612	5	12/07/71 - 12/07/71
		D014613	6	12/07/71 - 12/07/71 (119)
		D014997	7	12/07/71 - 12/07/71 (120)
DR006027	DS006027	D014651	1	12/08/71 - 12/08/71 (121)
		D014655	2	12/08/71 - 12/08/71 (122)
		D014652	3	12/08/71 - 12/08/71 (123)
		D014654	4	12/08/71 - 12/08/71
		D014650	5	12/09/71 - 12/09/71
		D014962	6	12/09/71 - 12/09/71 (124)
		D014963	7	12/09/71 - 12/09/71 (125)
		D014965	8	12/09/71 - 12/09/71 (126)

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DR #	DS#	D#	FILES	TIME SPAN
DR006028	DS006028	D018959	1	12/09/71 - 12/09/71 (127)
		D015030	2	12/09/71 - 12/09/71
		D014966	3	12/09/71 - 12/09/71
		D014964	4	12/09/71 - 12/09/71
		D014958	5	12/10/71 - 12/10/71
		D014959	6	12/10/71 - 12/10/71 (127a)
DR006029	DS006029	D015036	1	12/10/71 - 12/10/71
		D014960	2	12/10/71 - 12/10/71
		D014961	3	12/10/71 - 12/10/71 (128)
		D014778	4	12/10/71 - 12/11/71
		D014773	5	12/11/71 - 12/11/71
		D014776	6	12/11/71 - 12/11/71 (129)
		D014775	7	12/11/71 - 12/11/71 (130)
		D014774	8	12/11/71 - 12/11/71 (131)
DR006030	DS006030	D014777	1	12/11/71 - 12/11/71
		D014771	2	12/12/71 - 12/12/71 (132)
		D014823	3	12/12/71 - 12/12/71
		D014822	4	12/12/71 - 12/12/71 (133)
		D015041	5	12/12/71 - 12/12/71 (134)
		D015022	6	12/13/71 - 12/13/71
		D014815	7	12/13/71 - 12/13/71
		D014817	8	12/13/71 - 12/13/71
DR006031	DS006031	D014816	1	12/13/71 - 12/13/71 (135)
		D014819	2	12/13/71 - 12/13/71 (136)
		D014818	3	12/13/71 - 12/13/71 (137)
		D014781	4	12/14/71 - 12/14/71 (138)
		D014782	5	12/14/71 - 12/14/71 (139)
		D014785	6	12/14/71 - 12/14/71 (140)
		D014784	7	12/14/71 - 12/14/71 (141)
DR006032	DS006032	D014783	1	12/14/71 - 12/14/71
		D014780	2	12/15/71 - 12/15/71 (142)
		D014931	3	12/15/71 - 12/15/71 (143)
		D014933	4	12/15/71 - 12/15/71
		D015027	5	12/15/71 - 12/15/71 (144)
		D014935	6	12/15/71 - 12/15/71 (145)

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DR #	DS#	D#	FILES	TIME SPAN
DR006033	DS006033	D014925	1	12/16/71 - 12/16/71 (146)
		D014929	2	12/16/71 - 12/16/71
		D015031	3	12/16/71 - 12/16/71
		D019487	4	12/16/71 - 12/16/71 (147)
		D014927	5	12/16/71 - 12/16/71 (148)
		D014928	6	12/16/71 - 12/16/71
		D014920	7	12/17/71 - 12/17/71 (149)
		D014921	8	12/17/71 - 12/17/71 (150)
DR006034	DS006034	D014923	1	12/17/71 - 12/17/71
		D019484	2	12/17/71 - 12/17/71
		D015032	3	12/17/71 - 12/17/71
		D014924	4	12/17/71 - 12/17/71
		D014922	5	12/17/71 - 12/17/71
		D014918	6	12/18/71 - 12/18/71 (151)
		D015006	7	12/18/71 - 12/18/71
DR006035	DS006035	D018958	1	12/18/71 - 12/18/71 (152)
		D014722	2	12/18/71 - 12/18/71 (153)
		D014725	3	12/18/71 - 12/18/71
		D014727	4	12/18/71 - 12/18/71
		D014726	5	12/18/71 - 12/18/71 (154)
		D014723	6	12/19/71 - 12/19/71 (155)
DR006036	DS006036	D014724	1	12/19/71 - 12/19/71 (156)
		D014793	2	12/20/71 - 12/20/71 (157)
		D014800	3	12/21/71 - 12/21/71
		D019486	4	12/21/71 - 12/21/71
		D019485	5	12/22/71 - 12/22/71 (158)
		D014799	6	12/22/71 - 12/22/71
DR006037	DS006037	D014798	1	12/23/71 - 12/23/71 (159)
		D018670	2	12/24/71 - 12/24/71 (160)
		D018957	3	12/25/71 - 12/25/71
		D015023	4	12/26/71 - 12/26/71 (161)
		D018951	5	12/26/71 - 12/26/71 (162)

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DR #	DS#	D#	FILES	TIME SPAN
DR006038	DS006038	D018953	1	12/27/71 - 12/27/71 (163)
		D014901	2	12/28/71 - 12/28/71 (164)
		D014795	3	12/28/71 - 12/28/71 (165)
		D014794	4	12/29/71 - 12/29/71 (166)
		D018947	5	12/29/71 - 12/29/71 (167)
		D014894	6	12/30/71 - 12/30/71
		D018948	7	12/30/71 - 12/30/71 (168)
DR006039	DS006039	D014893	1	12/31/71 - 12/31/71
		D018635	2	12/31/71 - 12/31/71 (169)
		D014892	3	01/01/72 - 01/01/72
		D018633	4	01/01/72 - 01/01/72
		D014891	5	01/02/72 - 01/02/72
		D018945	6	01/02/72 - 01/02/72
		D018914	7	01/04/72 - 01/04/72
DR006040	DS006040	D019276	1	01/05/72 - 01/05/72 (170)
		D014888	2	01/06/72 - 01/06/72 (171)
		D018946	3	01/06/72 - 01/06/72 (172)
		D014887	4	01/07/72 - 01/07/72 (173)
		D019480	5	01/07/72 - 01/07/72 (174)
		D014909	6	01/08/72 - 01/08/72
DR006049	DS006049	D019275	1	01/08/72 - 01/08/72 (175)
		D014908	2	01/09/72 - 01/09/72 (176)
		D018912	3	01/09/72 - 01/09/72
		D019481	4	01/10/72 - 01/10/72 (177)
		D014906	5	01/11/72 - 01/11/72 (178)
		D018304	6	01/11/72 - 01/11/72 (179)
DR006050	DS006050	D015020	1	01/11/72 - 01/11/72
		D018654	2	01/12/72 - 01/12/72 (180)
		D014905	3	01/13/72 - 01/13/72 (181)
		D018655	4	01/13/72 - 01/13/72 (182)
		D014904	5	01/14/72 - 01/14/72
		D018305	6	01/14/72 - 01/14/72 (183)
DR006051	DS006051	D014903	1	01/15/72 - 01/15/72 (184)
		D018651	2	01/15/72 - 01/15/72
		D014902	3	01/16/72 - 01/16/72 (185)
		D018652	4	01/16/72 - 01/16/72 (186)
		D014843	5	01/17/72 - 01/17/72 (187)

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DR #	DS#	D#	FILES	TIME SPAN
DR006052	DS006052	D014845	1	01/18/72 - 01/18/72 (188)
		D018640	2	01/18/72 - 01/18/72 (189)
		D018306	3	01/19/72 - 01/19/72
		D014844	4	01/19/72 - 01/19/72 (190)
		D018656	5	01/20/72 - 01/20/72 (191)
		D015034	6	01/21/72 - 01/21/72 (192)
		D018944	7	01/21/72 - 01/21/72 (193)
DR006053	DS006053	D014846	1	01/21/72 - 01/21/72 (194)
		D018562	2	01/22/72 - 01/22/72 (195)
		D018561	3	01/23/72 - 01/23/72 (196)
		D018642	4	01/23/72 - 01/23/72
		D014842	5	01/23/72 - 01/23/72
		D014841	6	01/24/72 - 01/24/72 (197)
DR006054	DS006054	D019490	1	01/24/72 - 01/24/72
		D019497	2	01/24/72 - 01/24/72 (198)
		D019493	3	01/24/72 - 01/24/72 (199)
		D019492	4	01/24/72 - 01/24/72
		D018543	5	01/25/72 - 01/25/72 (200)
		D018563	6	01/25/72 - 01/25/72
DR006055	DS006055	D018544	1	01/25/72 - 01/25/72 (201)
		D018906	2	01/25/72 - 01/25/72 (202)
		D014840	3	01/25/72 - 01/25/72 (203)
		D014899	4	01/26/72 - 01/26/72 (204)
		D018302	5	01/26/72 - 01/26/72
DR006056	DS006056	D018646	1	01/26/72 - 01/26/72
		D018303	2	01/26/72 - 01/26/72
		D014900	3	01/27/72 - 01/27/72
		D018909	4	01/27/72 - 01/27/72
		D018645	5	01/27/72 - 01/27/72 (205)
DR006057	DS006057	D018644	1	01/27/72 - 01/27/72 (206)
		D018297	2	01/27/72 - 01/27/72
		D018296	3	01/28/72 - 01/28/72
		D018955	4	01/28/72 - 01/28/72 (207)
		D019488	5	01/28/72 - 01/28/72

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DR #	DS#	D#	FILES	TIME SPAN
DR006058	DS006058	D018956	1	01/28/72 - 01/28/72
		D019489	2	01/29/72 - 01/29/72 (208)
		D014898	3	01/30/72 - 01/30/72 (209)
		D015017	4	01/30/72 - 01/30/72 (210)
		D018295	5	01/31/72 - 01/31/72 (211)
DR006059	DS006059	D018298	1	01/31/72 - 01/31/72
		D014897	2	02/01/72 - 02/01/72 (212)
		D018299	3	02/01/72 - 02/01/72 (213)
DR006060	DS006060	D019277	1	02/01/72 - 02/01/72 (214)
		D014896	2	02/02/72 - 02/02/72 (215)
		D018942	3	02/02/72 - 02/02/72
		D018911	4	02/03/72 - 02/03/72 (216)
DR006061	DS006061	D018915	1	02/03/72 - 02/03/72 (217)
		D019251	2	02/03/72 - 02/04/72 (218)
		D018538	3	02/04/72 - 02/04/72
		D018539	4	02/05/72 - 02/05/72 (219)
		D018669	5	02/05/72 - 02/05/72 (220)
DR006062	DS006062	D018659	1	02/06/72 - 02/06/72 (221)
		D014895	2	02/07/72 - 02/07/72 (222)
		D018658	3	02/07/72 - 02/07/72 (223)
		D018653	4	02/07/72 - 02/07/72 (224)
DR006063	DS006063	D018540	1	02/07/72 - 02/07/72 (225)
		D018918	2	02/08/72 - 02/08/72 (226)
		D018921	3	02/08/72 - 02/08/72
		D014854	4	02/09/72 - 02/09/72
DR006064	DS006064	D018300	1	02/09/72 - 02/09/72
		D018634	2	02/09/72 - 02/09/72
		D014853	3	02/10/72 - 02/10/72 (227)
		D018903	4	02/10/72 - 02/10/72 (228)
		D018905	5	02/10/72 - 02/10/72
DR006065	DS006065	D018534	1	02/11/72 - 02/11/72 (229)
		D019498	2	02/11/72 - 02/11/72 (230)
		D018657	3	02/11/72 - 02/11/72 (231)
		D018560	4	02/11/72 - 02/11/72
		D014852	5	02/11/72 - 02/11/72
		D015012	6	02/12/72 - 02/12/72

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DR #	DS#	D#	FILES	TIME SPAN
DR006066	DS006066	D018537	1	02/12/72 - 02/12/72
		D019479	2	02/12/72 - 02/12/72
		D018916	3	02/12/72 - 02/12/72 (232)
		D019259	4	02/13/72 - 02/13/72
		D019260	5	02/13/72 - 02/13/72
DR006067	DS006067	D019281	1	02/13/72 - 02/14/72
		D019278	2	02/14/72 - 02/15/72 (233)
		D018536	3	02/15/72 - 02/15/72 (234)
DR006068	DS006068	D018647	1	02/15/72 - 02/15/72
		D014849	2	02/15/72 - 02/15/72 (235)
		D014855	3	02/16/72 - 02/16/72
		D019279	4	02/16/72 - 02/16/72 (236)
		D019265	5	02/16/72 - 02/16/72 (237)
DR006069	DS006069	D015038	1	02/17/72 - 02/17/72
		D019262	2	02/17/72 - 02/17/72
		D018960	3	02/17/72 - 02/17/72
		D019263	4	02/17/72 - 02/17/72 (238)
		D014836	5	02/17/72 - 02/17/72
		D018643	6	02/18/72 - 02/18/72
DR006070	DS006070	D014839	1	02/19/72 - 02/19/72 (239)
		D014834	2	02/20/72 - 02/20/72
		D018648	3	02/20/72 - 02/20/72 (240)
		D019495	4	02/20/72 - 02/20/72
		D018941	5	02/20/72 - 02/20/72
		D019264	6	02/20/72 - 02/20/72
		D014833	7	02/21/72 - 02/21/72
DR006071	DS006071	D014832	1	02/22/72 - 02/22/72 (241)
		D018940	2	02/22/72 - 02/22/72
		D019261	3	02/22/72 - 02/22/72
		D019280	4	02/23/72 - 02/23/72 (242)
		D014837	5	02/23/72 - 02/23/72 (243)
		D014838	6	02/24/72 - 02/24/72
DR006072	DS006072	D014814	1	02/25/72 - 02/25/72
		D014812	2	02/26/72 - 02/26/72
		D019494	3	02/27/72 - 02/26/72 (244)
		D014813	4	02/27/72 - 02/27/72 (245)
		D019266	5	02/28/72 - 02/28/72 (246)

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DR #	DS#	D#	FILES	TIME SPAN
DR006073	DS006073	D018641	1	03/01/72 - 03/01/72 (247)
		D014811	2	03/01/72 - 03/01/72
		D014808	3	03/03/72 - 03/03/72 (248)
		D014809	4	03/04/72 - 03/04/72 (249)
		D019491	5	03/04/72 - 03/04/72 (250)
		D014866	6	03/06/72 - 03/06/72 (251)
		D014862	7	03/07/72 - 03/07/72
DR006074	DS006074	D018542	1	03/08/72 - 03/08/72 (252)
		D015033	2	03/09/72 - 03/09/72 (253)
		D019496	3	03/11/72 - 03/11/72 (254)
		D014858	4	03/13/72 - 03/13/72
		D014857	5	03/15/72 - 03/15/72
		D018650	6	03/15/72 - 03/15/72
		D014856	7	03/17/72 - 03/17/72
DR006075	DS006075	D014957	1	03/20/72 - 03/20/72
		D014956	2	03/21/72 - 03/21/72 (255)
		D018649	3	03/21/72 - 03/21/72 (256)
		D014955	4	03/22/72 - 03/22/72 (257)
		D014954	5	03/23/72 - 03/23/72
		D015018	6	03/24/72 - 03/24/72 (258)
		D014953	7	03/26/72 - 03/26/72 (259)
DR006076	DS006076	D018954	1	03/26/72 - 03/26/72
		D014952	2	03/27/72 - 03/27/72
		D014951	3	03/28/72 - 03/28/72 (260)
		D018913	4	03/28/72 - 03/28/72 (261)
		D014950	5	03/29/72 - 03/29/72 (262)
		D018919	6	04/01/72 - 04/01/72 (263)
DR006077	DS006077	D018566	1	04/04/72 - 04/04/72
		D018567	2	04/08/72 - 04/08/72
		D018564	3	04/11/72 - 04/11/72
		D018565	4	04/15/72 - 04/15/72
		D018924	5	04/22/72 - 04/22/72
		D018568	6	04/26/72 - 04/26/72

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DR #	DS#	D#	FILES	TIME SPAN
DR006078	DS006078	D014671	1	04/28/72 - 04/28/72
		D014673	2	04/29/72 - 04/29/72 (264)
		D018620	3	04/29/72 - 04/29/72 (265)
		D014672	4	04/30/72 - 04/30/72
		D014670	5	05/01/72 - 05/01/72
		D015007	6	05/01/72 - 05/01/72
		D018920	7	05/03/72 - 05/03/72 (266)
		D014669	8	05/03/72 - 05/03/72 (267)
DR006087	DS006087	D014667	1	05/05/72 - 05/05/72 (268)
		D014666	2	05/06/72 - 05/06/72 (269)
		D018923	3	05/06/72 - 05/06/72 (270)
		D014944	4	05/07/72 - 05/07/72 (271)
		D014942	5	05/08/72 - 05/09/72
		D014943	6	05/09/72 - 05/10/72 (272)
DR006088	DS006088	D019482	1	05/10/72 - 05/10/72 (273)
		D018541	2	05/13/72 - 05/13/72 (274)
		D018535	3	05/16/72 - 05/16/72 (275)
		D014948	4	05/17/72 - 05/17/72 (276)
		D014947	5	05/18/72 - 05/18/72
		D015015	6	05/19/72 - 05/19/72 (277)
		D018907	7	05/20/72 - 05/20/72 (278)
DR006089	DS006089	D014945	1	05/21/72 - 05/21/72 (279)
		D014677	2	05/22/72 - 05/22/72
		D014678	3	05/22/72 - 05/22/72 (280)
		D014680	4	05/23/72 - 05/23/72
		D018917	5	05/23/72 - 05/23/72
		D014676	6	05/24/72 - 05/25/72
DR006090	DS006090	D015010	1	05/25/72 - 05/25/72
		D014674	2	05/28/72 - 05/28/72 (281)
		D014679	3	05/29/72 - 05/28/72 (282)
		D014681	4	05/29/72 - 05/29/72
		D014801	5	05/30/72 - 05/30/72 (283)
		D018908	6	05/31/72 - 05/31/72 (284)

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DR #	DS#	D#	FILES	TIME SPAN
DR006091	DS006091	D014806	1	06/02/72 - 06/02/72 (285)
		D015037	2	06/03/72 - 06/03/72 (286)
		D018922	3	06/03/72 - 06/03/72
		D015013	4	06/05/72 - 06/05/72 (287)
		D014804	5	06/05/72 - 06/05/72
		D018925	6	06/06/72 - 06/06/72
DR006092	DS006092	D014703	1	06/08/72 - 06/08/72
		D018910	2	06/10/72 - 06/10/72
		D014743	3	06/12/72 - 06/12/72
		D014739	4	06/14/72 - 06/14/72
		D018904	5	06/14/72 - 06/14/72 (288)
		D014744	6	06/15/72 - 06/15/72 (289)
DR006093	DS006093	D014745	1	06/16/72 - 06/16/72 (290)
		D015008	2	06/17/72 - 06/17/72
		D014742	3	06/19/72 - 06/19/72
		D014741	4	06/20/72 - 06/20/72
		D018639	5	06/20/72 - 06/20/72 (291)
		D014740	6	06/21/72 - 06/21/72
DR006094	DS006094	D014608	1	06/22/72 - 06/22/72 (292)
		D014607	2	06/23/72 - 06/23/72
		D014606	3	06/24/72 - 06/24/72 (293)
		D014605	4	06/25/72 - 06/25/72 (294)
		D014995	5	06/26/72 - 06/26/72 (295)
		D014602	6	06/30/72 - 06/30/72 (296)
DR006095	DS006095	D014937	1	07/01/72 - 07/01/72 (297)
		D014936	2	07/02/72 - 07/02/72 (298)
		D014932	3	07/03/72 - 07/03/72 (299)
		D014934	4	07/04/72 - 07/04/72
		D015019	5	07/04/72 - 07/04/72
		D014938	6	07/06/72 - 07/06/72 (300)
		D014939	7	07/07/72 - 07/07/72 (301)
DR006096	DS006096	D014940	1	07/08/72 - 07/08/72 (302)
		D018638	2	07/08/72 - 07/08/72
		D014941	3	07/10/72 - 07/10/72
		D018636	4	07/11/72 - 07/11/72 (303)
		D014979	5	07/12/72 - 07/12/72

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DR #	DS#	D#	FILES	TIME SPAN
DR006097	DS006097	D014980	1	07/13/72 - 07/13/72
		D014981	2	07/14/72 - 07/14/72 (304)
		D014982	3	07/15/72 - 07/15/72
		D014975	4	07/16/72 - 07/16/72
		D014976	5	07/18/72 - 07/18/72 (305)
		D018637	6	07/18/72 - 07/18/72
DR006098	DS006098	D014977	1	07/19/72 - 07/19/72
		D014978	2	07/20/72 - 07/20/72 (306)
		D015026	3	07/20/72 - 07/20/72
		D019483	4	07/22/72 - 07/22/72 (307)
		D014917	5	07/22/72 - 07/22/72 (308)
		D014914	6	07/23/72 - 07/23/72
		D014915	7	07/24/72 - 07/24/72 (309)
DR006099	DS006099	D014916	1	07/26/72 - 07/26/72 (310)
		D015016	2	07/27/72 - 07/27/72 (311)
		D014912	3	07/28/72 - 07/28/72
		D014913	4	07/29/72 - 07/29/72 (312)
		D014910	5	07/30/72 - 07/30/72
		D014911	6	07/31/72 - 07/31/72 (313)
		D014736	7	08/01/72 - 08/01/72
DR006100	DS006100	D015009	1	08/02/72 - 08/02/72
		D018949	2	08/02/72 - 08/02/72 (314)
		D014737	3	08/03/72 - 08/03/72 (315)
		D014738	4	08/04/72 - 08/04/72
		D018952	5	08/08/72 - 08/08/72 (316)
		D015021	6	01/31/72 - 01/03/72
		D015039	7	02/12/72 - 02/12/72 (317)
DR006101	DS006101	D014595	1	08/08/71 - 08/08/71
		D014779	2	12/15/71 - 12/15/71 (318)
		D014772	3	12/12/71 - 12/12/71 (319)
		D014759	4	12/04/71 - 12/05/71
		D014753	5	11/01/71 - 11/01/71 (320)
		D014746	6	06/16/72 - 06/16/72 (321)
		D014701	7	
		D014700	8	
		D014699	9	
		D014698	10	06/06/72 - 06/06/72 (322)

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DR #	DS#	D#	FILES	TIME SPAN
DR006102	DS006102	D014695	1	09/16/71 - 09/10/71 (323)
		D014692	2	09/20/71 - 09/20/71 (324)
		D014685	3	11/14/71 - 11/14/71
		D014731	4	10/09/71 - 10/09/71 (325)
		D014728	5	10/12/71 - 10/12/71 (326)
		D014717	6	10/18/71 - 10/18/71 (327)
DR006103	DS006103	D014710	1	10/02/71 - 10/02/71 (328)
		D014708	2	10/02/71 - 10/02/71 (329)
		D014706	3	10/02/71 - 10/02/71 (330)
		D014704	4	06/07/72 - 06/07/72
		D014702	5	06/09/72 - 06/09/72 (331)
		D014926	6	12/16/71 - 12/16/71 (332)
DR006104	DS006104	D014869	1	12/03/71 - 12/03/71 (333)
		D014983	2	(334)
		D014974	3	08/25/71 - 08/25/71
		D014973	4	08/26/71 - 08/26/71 (335)
		D014972	5	08/26/71 - 08/27/71
		D014968	6	09/01/71 - 09/01/71 (336)
DR006105	DS006105	D014949	1	05/08/72 - 05/28/72 (337)
		D014946	2	05/19/72 - 05/19/72 (338)
		D014930	3	12/15/71 - 12/15/71 (339)
		D014861	4	03/08/72 - 03/08/72 (340)
		D014860	5	03/09/72 - 03/09/72 (341)
		D014859	6	03/11/72 - 03/11/72 (342)
		D014851	7	02/24/72 - 02/24/72 (343)
DR006106	DS006106	D014850	1	02/14/72 - 02/14/72 (344)
		D014848	2	02/08/72 - 02/08/72
		D014847	3	01/20/72 - 01/20/72 (345)
		D014907	4	(346)
		D014889	5	01/05/72 - 01/05/72 (347)
		D014877	6	09/07/71 - 09/01/71 (348)
		D014876	7	(349)
DR006107	DS006107	D014875	1	09/08/71 - 09/08/71
		D014870	2	12/03/71 - 12/03/71 (350)
		D014807	3	03/02/72 - 03/02/72 (351)
		D014805	4	06/03/72 - 06/03/72 (352)
		D014803	5	06/02/72 - 06/02/72 (353)
		D014802	6	06/01/72 - 06/01/72 (354)

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DR #	DS#	D#	FILES	TIME SPAN
DR006108	DS006108	D014797	1	12/24/71 - 12/24/71 (355)
		D014796	2	
		D014788	3	10/01/71 - 10/01/71 (356)
		D014835	4	02/25/72 - 02/25/72
		D014830	5	10/23/71 - 10/23/71
		D014827	6	10/27/71 - 10/27/71
		D014821	7	12/12/71 - 12/12/71
DR006109	DS006109	D014820	1	12/22/71 - 12/22/71
		D014810	2	03/05/72 - 03/05/72
		D014649	3	10/03/71 - 10/03/71
		D014626	4	09/29/71 - 09/29/72 (357)
		D014624	5	12/01/71 - 12/01/71
		D014618	6	12/01/71 - 12/01/71 (358)
		D014610	7	12/07/71 - 12/07/71 (359)
		D014604	8	06/28/72 - 06/28/72 (360)
		D014603	9	06/29/72 - 06/29/72 (361)
DR006110	DS006110	D014675	1	05/26/72 - 05/26/72 (362)
		D014668	2	05/05/72 - 05/05/72 (363)
		D014659	3	08/23/71 - 08/23/71 (364)
		D014658	4	08/24/71 - 08/24/71 (365)
		D014653	5	12/08/71 - 12/08/71 (366)

(1) D019256: Read errors occurred in records 1603, 2664 of file 1.
(2) D014597: Read errors occurred in records 190,507,541,865,991,1054,1660,1764,1827, 1889, 2311,2351,2392,2638,2891 of file 1.
(3) D014594: Read errors occurred in records 224,770 of file 1.
(4) D014992: Read error occurred in record 1314 of file 1.
(5) D019500: Read errors occurred in records 1610,13792 of file 1.
(6) D019502: Read errors occurred in records 3252,3752,5780,5801,6282,9968,10250 10269,10326 of file 1.
(7) D014598: Read errors occurred in records 915,916,2385,2407,2428,2429,2447,2450, 2451, 2600, 2602,2647,2669,2691,2735,2758,2846,2913,2957,2979,3001,3023,3045, 3265,4413 of file 1.
(8) D014600: Read errors occurred in records 712,878 of file 1.
(9) D019254: Read errors occurred in records 1092,1093,2027,3016 of file 1.
(10) D019499: Read errors occured in records 1651,2036 of file 1.
(11) D014599: Read errors occurred in records 792,891,990 of file 1.
(12) D014665: Read error occured in record 1307 of file 1.
(13) D019253: Read error occurred in record 8315 of file 1.
(14) D014664: Read error occured in record 976 of file 1.

(15) D018662: Read errors occurred in records 1235,1281 of file 1.
(16) D014662: Read errors occured in records 783,785 of file 1.
(17) D019257: Read errors occurred in records 43,144,145,1236 of file 1.
(18) D014660: Read errors occured in records 1,9,33,41,97,124,212 of file 1.
(19) D018661: Read errors occured in records 2734,2936,3278,3280,3282,4622,5204,5205 5206,5912,5913,5914 of file 1.
(20) D018627: Read errors occurred in records 86,293,501,583,684,856,1037,1470,1570, 1673,3508,6885 of file 1.
(21) D018621: Read errors occured in records 305,327 of file 1.
(22) D018625: Read errors occurred in records 4436,4437 of file 1.
(23) D019258: Read error occurred in record 6385 of file 1.
(24) D018549: Read error occurred in record 7414 of file 1.
(25) D018550: Read error occurred in record 510 of file 1.
(26) D014969: Read errors occurred in records 1468,3007,3313,3545,5767,6342,6765,8589 of file 1.
(27) D018556: Read errors occurred in records 451,2255,8599 of file 1.
(28) D019503: Read errors occurred in records 379,483,485,1320 of file 1.
(29) D019504: Read error occurred in record 2388 of file 1.
(30) D014878: Read errors occurred in records 615,2255 of file 1.
(31) D018546: Read errors occurred in records 380,609,1424,2185,2323 of file 1.
(32) D014873: Read error occurred in record 8464 of file 1.
(33) D014872: Read error occurred in record 393 of file 1.
(34) D014871: Read error occurred in record 3737 of file 1.
(35) D018939: Read errors occurred in records 966,1976,1989 of file 1.
(36) D014697: Read error occurred in record 1451 of file 1.
(37) D014696: Read errors occurred in records 2840,2842,2862,2863 of file 1.
(38) D018628: Read errors occurred in records 18,19,774,776,777 of file 1.
(39) D018937: Read errors occurred in records 6351,9406,9465 of file 1.
(40) D014694: Read errors occurred in records 4,12,17,27,38,61,67,157,190,6708 of file 1.
(41) D018935: Read error occurred in record 9158 of file 1.
(42) D014641: Read errors occurred in records 640,1908 of file 1.
(43) D018927: Read errors occurred in records 71,114,1457 of file 1.
(44) D014639: Read errors occurred in records 6141,6142 of file 1.
(45) D014994: Read error occurred in record 2156 of file 1.
(46) D018938: Read errors occurred in records 2530,2531 of file 1.
(47) D014637: Read errors occurred in records 2218,2257,2933,2934,2935,2936,2952,2953, 2955, 2971,2973,2974,2988,2990,3009,3010,3029,3048,3067,3074,4894,4895, 4896,4897,4899,4900,4901,4903,4904,4905,4906 of file 1.
(48) D014632: Read errors occurred in records 1391,1392,1393 of file 1.
(49) D014633: Read error occurred in record 320 of file 1.
(50) D015004: Read errors occurred in records 309,560,861,1002,1495,1500,1581,1718, 1723,2046,2199,2680,2712,2859,3052,3445,4286,4716,5225,8316,8333 of file 1.
(51) D015024: Read errors occurred in records 9147,9148 of file 1.
(52) D018288: Read errors occurred in records 2211,3911 of file 1.
(53) D014636: Read error occurred in record 1018 of file 1.

(54) D014789: Read errors occurred in records 35,36 of file 1.
(55) D014790: Read errors occurred in records 27,675,682 of file 1.
(56) D018287: Read errors occurred in records 1770,1772,1798,1820,1822,1854,1945 of file1.
(57) D014711: Read errors occurred in records 30,187,188,363,490,653,774,991,1056,1189, 1275,1401,1444,3879 of file 1.
(58) D014993: Read errors occurred in records 245,368,409,450,507,918 of file 1.
(59) D014646: Read error occurred in record 609 of file 1.
(60) D014647: Read errors occurred in records 2204,4134 of file 1.
(61) D014735: Read errors occurred in records 939,9250 of file 1.
(62) D014643: Read errors occurred in records 237,494,3085,3451,3776,4144 of file 1.
(63) D014729: Read errors occurred in records 2155,5304,6420,6768,6860,8188 of file 1.
(64) D014721: Read error occurred in record 2167 of file 1.
(65) D015002: Read error occurred in record 7132 of file 1.
(66) D014715: Read errors occurred in records 1135,1999,2000,2001 of file 1.
(67) D019272: Read error occurred in record 1460 of file 1.
(68) D019267: Read errors occurred in records 1,2,3,4 of file 1.
(69) D019268: Read errors occurred in records 1012,2087,2091 of file 1.
(70) D014829: Read error occurred in record 105 of file 1.
(71) D014828: Read errors occurred in records 57,58 of file 1.
(72) D015040: Read errors occurred in records 160,413,2496 of file 1.
(73) D019270: Read errors occurred in records 1,990 of file 1.
(74) D014826: Read errors occurred in records 118,2173,3568 of file 1.
(75) D018622: Read errors occurred in records 597,2324 of file 1.
(76) D014825: Read errors occurred in records 36,37,102,104 of file 1.
(77) D018933: Read errors occurred in records 320,343,367 of file 1.
(78) D014824: Read errors occurred in records 108,122,266,271 of file 1.
(79) D018930: Read error occurred in record 1810 of file 1.
(80) D014748: Read errors occurred in records 866,921 of file 1.
(81) D018557: Read errors occurred in records 1,2,36 of file 1.
(82) D015011: Read errors occurred in records 8,13,15,33,35,37,39,42,630,8392 of file 1.

(83) D018665: Read errors occurred in records 1080,1143,4215,4408,4629,6886 of file 1.
(84) D018664: Read errors occurred in records 1222,1280,1300 of file 1.
(85) D014750: Read errors occurred in records 499,1970,4291,4759,4983,5024,5044,5059, 5200,7216 of file 1.
(86) D018668: Read errors occurred in records 26,27,32,40,41,47,8964 of file 1.
(87) D014688: Read errors occurred in records 2369,2388,2408,2427 of file 1.
(88) D018629: Read error occurred in record 909 of file 1.
(89) D018631: Read errors occurred in records 800,990,6418 of file 1.
(90) D018630: Read errors occurred in records 1144,7984 of file 1.
(91) D014687: Read errors occurred in records 1966,3621,3640 of file 1.
(92) D015000: Read error occurred in record 734 of file 1.
(93) D014684: Read error occurred in record 2123 of file 1.
(94) D014682: Read error occurred in record 1644 of file 1.
(95) D018558: Read errors occurred in records 730,1070,2579,2580,2618 of file 1.

(96) D014770: Read errors occurred in records 1431,1493,1514,1576,1720,1782,9264,9591 of file 1.
(97) D014769: Read errors occurred in records 3537,3540,3542,8259 of file 1.
(98) D014767: Read errors occurred in records 7503,7651 of file 1.
(99) D014764: Read errors occurred in records 2587,2999,3677 of file 1.
(100) D014763: Read errors occurred in records 3018,3036,3038 of file 1.
(101) D015001: Read errors occurred in records 365,368 of file 1.
(102) D014620: Read errors occurred in records 3145,3600,3646 of file 1.
(103) D014882: Read error occurred in record 1615 of file 1.
(104) D014886: Read error occurred in record 127 of file 1.
(105) D014885: Read errors occurred in records 368,998,1055,1954,2019,2595,8942 of file 1.
(106) D014879: Read errors occurred in records 235,236 of file 1.
(107) D014967: Read errors occurred in records 143,156,226,278,1662,12358,13329 of file 1.
(108) D014863: Read errors occurred in records 87,89,385,387 of file 1.
(109) D014865: Read errors occurred in records 2305,4518 of file 1.
(110) D014867: Read errors occurred in records 23,3746 of file 1.
(111) D015025: Read error occurred in record 176 of file 1.
(112) D014756: Read error occurred in record 1453 of file 1.
(113) D014615: Read errors occurred in records 1656,3415 of file 1.
(114) D014616: Read error occurred in record 483 of file 1.
(115) D014614: Read errors occurred in records 25,26,27,28 of file 1.
(116) D014611: Read error occurred in record 1259 of file 1.
(117) D014657: Read errors occurred in records 2354,2359 of file 1.
(118) D014656: Read errors occurred in records 954,3732,3853,3992,4526 of file 1.
(119) D014613: Read errors occurred in records 208,2113,2186 of file 1.
(120) D014997: Read error occurred in record 700 of file 1.
(121) D014651: Read error occurred in record 56 of file 1.
(122) D014655: Read errors occurred in records 8553,8666 of file 1.
(123) D014652: Read errors occurred in records 1008,1009,1010,1011,1012,1013,1014, 1015,1016,1017 of file 1.

(124) D014962: Read errors occurred in records 107,421,463,567,588,608,650,671,692, 816,878,899,919,1001 of file 1.
(125) D014963: Read errors occurred in records 142,242 of file 1.
(126) D014965: Read error occurred in record 55 of file 1.
(127) D018959: Read errors occurred in records 974,982,983,1106 of file 1.
(127a) D014959: Read error occurred in record 1917 of fil1 1.
(128) D014961: Read errors occurred in records 322,1055,7596 of file 1.
(129) D014776: Read error occurred in record 1441 of file 1.
(130) D014775: Read error occurred in record 3087 of file 1.
(131) D014774: Read errors occurred in records 230,987,1976,1977,1978,1979,6082,7503, 8042,9330 of file 1.
(132) D014771: Read errors occurred in records 1243,1555 of file 1.
(133) D014822: Read errors occurred in records 227,464,1329,1330 of file 1.
(134) D015041: Read errors occurred in records 3689,3701,3702,3707,3708,3709,3726,

3727,3728 of file 1.
(135) D014816: Read error occurred in record 12 of file 1.
(136) D014819: Read error occurred in record 4756 of file 1.
(137) D014818: Read errors occurred in records 28,1226,2356,2380,3095 of file 1.
(138) D014781: Read error occurred in record 181 of file 1.
(139) D014782: Read errors occurred in records 7,641 of file 1.
(140) D014785: Read error occurred in record 17 of file 1.
(141) D014784: Read errors occurred in records 4,482,940 of file 1.
(142) D014780: Read error occurred in record 1112 of file 1.
(143) D014931: Read errors occurred in records 74,208,229,250 of file 1.
(144) D015027: Read errors occurred in records 563,887,1181,1512 of file 1.
(145) D014935: Read errors occurred in records 771,781,2338,2360,2383,2405,2448,2471,2493, 2554,2618,2686,6380,6401 of file 1.
(146) D014925: Read error occurred in record 4291 of file 1.
(147) D019487: Read errors occurred in records 40,64,141,5659 of file 1.
(148) D014927: Read error occurred in record 44 of file 1.
(149) D014920: Read errors occurred in records 526,649 of file 1.
(150) D014921: Read errors occurred in records 35,4994,5042,5743,6357,8046 of file 1.
(151) D014918: Read error occurred in record 150 of file 1.
(152) D018958: Read error occurred in record 275 of file 1.
(153) D014722: Read error occurred in record 275,399,689,730,1150,1241,1554,1695, 1727,2104,2106,2124 of file 1.
(154) D014726: Read errors occurred in records 1005,9282 of file 1.
(155) D014723: Read error occurred in record 469,536,726,795,797,1291,1292,1409, 1610,1709,3753,7607,7608 of file 1.
(156) D014724: Read error occurred in record 21 of file 1.
(157) D014793: Read errors occurred in records 417,425,500,5143,5148,5152 of file 1.
(158) D019485: Read errors occurred in records 249,253 of file 1.
(159) D014798: Read errors occurred in records 447,720,1050,1726,1727,2062,2063,2069, 2073,2184,2376,2497,2526,2577,2657,2816 of file 1.
(160) D018670: Read errors occurred in records 8365,8385 of file 1.
(161) D015023: Read errors occurred in records 889,1020,1237 of file 1.
(162) D018951: Read errors occurred in records 1081,2101,2102,2125 of file 1.
(163) D018953: Read errors occurred in records 940,963,986,1190,1281 of file 1.
(164) D014901: Read error occurred in record 26 of file 1.
(165) D014795: Read errors occurred in records 272,314,356,419,457 of file 1.
(166) D014794: Read error occurred in record 4967 of file 1.
(167) D018947: Read error occurred in record 4442 of file 1.
(168) D018948: Read error occurred in record 93 of file 1.
(169) D018635: Read errors occurred in records 561,699,882,1893,7729,7732,7750 of file 1.
(170) D019276: Read errors occurred in records 4382,4383 of file 1.
(171) D014888: Read errors occurred in records 40,182,269,2495 of file 1.
(172) D018946: Read errors occurred in records 2694,2695 of file 1.
(173) D014887: Read errors occurred in records 29,31,32,1052,1053,1054,1055,1056,1057, 1058,1059,1061,1062 of file 1.

(174) D019480: Read errors occurred in records 42,452,1819,2214,4438,5152,5399,6608, 6660,7351 of file 1.
(175) D019275: Read errors occurred in records 143,156,167,174,262,332,431,1087,2869 of file 1.
(176) D014908: Read errors occurred in records 1145,1340,1401,1406,1422,1482,2181, 4310,4311,4312,4313 of file 1.
(177) D019481: Read errors occurred in records 865,866,1251,1377,2555,2557 of file 1.
(178) D014906: Read error occurred in record 638 of file 1.
(179) D018304: Read errors occurred in records 421,446,497,540,611,687,724,777,801,966, 1855,1899,1969,2197,2247,2293,2310,2311,2315,2316,4235,5617,5871,8887, 8893, 8988 of file 1.
(180) D018654: Read error occurred in record 9009 of file 1.
(181) D014905: Read error occurred in record 3098 of file 1.
(182) D018655: Read error occurred in record 475,741,753,772,1872,2161,2915,3737,3739, 3741,3743,3745,3750,3751,6333 of file 1.
(183) D018305: Read errors occurred in records 1217,1222 of file 1.
(184) D014903: Read errors occurred in records 1172,1241,1252,1550,1555,2067,3546,3551, 3556,3977,4134,5543,11697 of file 1.
(185) D014902: Read errors occurred in records 1025,1046 of file 1.
(186) D018652: Read errors occurred in records 1251,1729 of file 1.
(187) D014843: Read error occurred in record 256 of file 1.
(188) D014845: Read errors occurred in records 33,1296 of file 1.
(189) D018640: Read error occurred in record 2083 of file 1.
(190) D014844: Read errors occurred in records 1,2,2562 of file 1.
(191) D018656: Read errors occurred in records 32,52,640,742,1136,1493 of file 1.
(192) D015034: Read errors occurred in records 916,1348,1349,1350,1352,1353 of file 1.
(193) D018944: Read error occurred in record 44 of file 1.
(194) D014846: Read error occurred in record 651 of file 1.
(195) D018562: Read errors occurred in records 300,302,303,1115,1332,1579,9423 of file 1.
(196) D018561: Read error occurred in record 43 of file 1.
(197) D014841: Read errors occurred in records 163,1850 of file 1.

(198) D019497: Read errors occurred in records 2149,2194,2263,2286,2328,2353,2419,2532, 2580,2645,2848,2938,2983,3054,3140 of file 1.
(199) D019493: Read errors occurred in records 450,542,543,838,839 of file 1.
(200) D018543: Read errors occurred in records 467,468,469,594,596,616,618 of file 1.
(201) D018544: Read errors occurred in records 3134,3177,3221 of file 1.
(202) D018906: Read errors occurred in records 1481,1495 of file 1.
(203) D014840: Read errors occurred in records 29,2537,2539,2588 of file 1.
(204) D014899: Read errors occurred in records 153,282 of file 1.
(205) D018645: Read error occurred in record 1296 of file 1.
(206) D018644: Read errors occurred in records 1,2562 of file 1.
(207) D018955: Read errors occurred in records 35,4099 of file 1.
(208) D019489: Read error occurred in record 1221 of file 1.
(209) D014898: Read errors occurred in records 1412,8939,8940,8956,8957,8958 of file 1.

(210) D015017: Read error occurred in record 426 of file 1.
(211) D018295: Read error occurred in record 589 of file 1.
(212) D014897: Read error occurred in record 782 of file 1.
(213) D018299: Read errors occurred in records 2226,6972 of file 1.
(214) D019277: Read error occurred in record 448 of file 1.
(215) D014896: Read errors occurred in records 1222,1367,1369,1601 of file 1.
(216) D018911: Read errors occurred in records 4598,6786,6787,6788,6789,6808 of file 1.
(217) D018915: Read errors occurred in records 192,215,260,369 of file 1.
(218) D019251: Read error occurred in record 106 of file 1.
(219) D018539: Read error occurred in record 2569 of file 1.
(220) D018669: Read errors occurred in records 129,201,295,410,411,715,716,717 of file 1.
(221) D018659: Read error occurred in record 118 of file 1.
(222) D014895: Read error occurred in record 7917 of file 1.
(223) D018658: Read errors occurred in records 6102,8376 of file 1.
(224) D018653: Read errors occurred in records 171,219,220 of file 1.
(225) D018540: Read errors occurred in records 1530,1552,1617,1639,1682,1704,1726 of file 1.
(226) D018918: Read errors occurred in records 1402,1404,1407,1409 of file 1.
(227) D014853: Read errors occurred in records 150,276,279 of file 1.
(228) D018903: Read errors occurred in records 134,136 of file 1.
(229) D018534: Read error occurred in record 2363 of file 1.
(230) D019498: Read errors occurred in records 1073,1513,1546,1608,1828,2091 of file 1.
(231) D018657: Read errors occurred in records 1392,1881,1882,1883,1884,1885,1886, 9212 of file 1.
(232) D018916: Read errors occurred in records 31,39,94 of file 1.
(233) D019278: Read errors occurred in records 247,255,311,331,414,604,624,1504,9507, 13033,15149,15663,15848,16277,16828,16978,17077 of file 1.
(234) D018536: Read errors occurred in records 2314,2315,2316,2337,2339 of file 1.
(235) D014849: Read errors occurred in records 1541,1617,1863,2386,2436 of file 1.
(236) D019279: Read errors occurred in records 2330,2393,2394,2395,2401,2403,2404,2406, 2407 of file 1.
(237) D019265: Read errors occurred in records 1908,1909,1910,1911,1912,1913,2084 of file 1.
(238) D019263: Read errors occurred in records 1670,2078,2089,4936,9672,9690,9691 of file 1.
(239) D014839: Read error occurred in record 1083 of file 1.
(240) D018648: Read errors occurred in records 437,453,577,631,1934,1952,2155,2200,3854 of file 1.
(241) D014832: Read error occurred in record 4219 of file 1.
(242) D019280: Read error occurred in record 327 of file 1.
(243) D014837: Read error occurred in record 7340 of file 1.
(244) D019494: Read errors occurred in records 34,37,118,2803 of file 1.
(245) D014813: Read error occurred in record 1471 of file 1.
(246) D019266: Read errors occurred in records 402,403,404,405 of file 1.
(247) D018641: Read errors occurred in records 1865,1867,8166 of file 1.
(248) D014808: Read errors occurred in records 717,814,833,1443,1555,1650,1744,1942,2153, 2260,2297,4273,4308,4326,4573 of file 1.
(249) D014809: Read errors occurred in records 1913,1914,1916,1921,1922 of file 1.

(250) D019491: Read error occurred in record 64 of file 1.
(251) D014866: Read errors occurred in records 188,576,588,693,1124,1636 of file 1.
(252) D018542: Read error occurred in record 4308 of file 1.
(253) D015033: Read errors occurred in records 595,1117,2400 of file 1.
(254) D019496: Read errors occurred in records 1572,1667,1817,1836,1911 of file 1.
(255) D014956: Read error occurred in record 9227 of file 1.
(256) D018649: Read errors occurred in records 2403,2404,2405,2406,2407,2408,2409
2791,2852,2973,3034,3095,3135,3176,3196,3297,3378,3397,3417,3418,
3458,3478,5673 of file 1.
(257) D014955: Read errors occurred in record 2513,2515 of file 1.
(258) D015018: Read error occurred in record 1890 of file 1.
(259) D014953: Read errors occurred in records 570,590,629,668 of file 1.
(260) D014951: Read error occurred in record 270 of file 1.
(261) D018913: Read errors occurred in records 19,1548,1558,1735,1736 of file 1.
(262) D014950: Read error occurred in record 1311 of file 1.
(263) D018919: Read error occurred in record 968 of file 1.
(264) D014673: Read error occurred in record 46 of file 1.
(265) D018620: Read error occurred in record 7568 of file 1.
(266) D018920: Read errors occurred in records 1491,1942,2009,2054,2121,2139,2165,
2210,7248,9528 of file 1.
(267) D014669: Read errors occurred in records 29,39,42,61,67,76,83,97,116,176,213,283
of file 1.
(268) D014667: Read errors occurred in records 1,2 of file 1.
(269) D014666: Read error occurred in record 8935 of file 1.
(270) D018923: Read errors occurred in records 456,1253,1343,1364 of file 1.
(271) D014944: Read error occurred in record 9071 of file 1.
(272) D014943: Read error occurred in record 44 of file 1.
(273) D019482: Read errors occurred in records 888,893,2408 of file 1.
(274) D018541: Read error occurred in record 9882 of file 1.
(275) D018535: Read errors occurred in records 705,1072,1753 of file 1.
(276) D014948: Read error occurred in record 380 of file 1.
(277) D015015: Read errors occurred in records 53,389,660,1564,1565,1567 of file 1.
(278) D018907: Read errors occurred in records 31,32,2558 of file 1.
(279) D014945: Read errors occurred in records 202,477,1352,1429,2293,3719,6887,
9243 of file 1.
(280) D014678: Read errors occurred in records 1488,1464 of file 1.
(281) D014674: Read error occurred in record 3411 of file 1.
(282) D014679: Read errors occurred in records 104,417 of file 1.
(283) D014801: Read error occurred in record 34 of file 1.
(284) D018908: Read errors occurred in records 403,1105 of file 1.
(285) D014806: Read errors occurred in records 319,1111,1592 of file 1.
(286) D015037: Read error occurred in record 1737 of file 1.
(287) D015013: Read error occurred in record 3652 of file 1.
(288) D018904: Read errors occurred in records 725,5722,9472 of file 1.
(289) D014744: Read error occurred in record 166 of file 1.

(290) D014745: Read errors occurred in records 114,511,621,812,997,5155,5844 of file 1.
(291) D018639: Read error occurred in records 1404,9243,9806 of file 1.
(292) D014608: Read error occurred in record 2973 of file 1.
(293) D014606: Read errors occurred in records 193,219,1358,1360,1377,1400 of file 1.
(294) D014605: Read errors occurred in records 512,8696 of file 1.
(295) D014955: Read error occurred in record 1344 of file 1.
(296) D014602: Read errors occurred in records 933,952,953,972,1011,1030,1050,1065,
1069,1088,1089,1108,1127,1147,1166,1169,1185,1205,1263,1282,1297,
1316,1340,1359,1378,1401,1409,1420,1439,1516,2991,5698,8334,8645,
8661 of file 1.
(297) D014937: Read errors occurred in records 1710,1742 of file 1.
(298) D014936: Read errors occurred in records 3036,3057,3100 of file 1.
(299) D014932: Read error occurred in record 38 of file 1.
(300) D014938: Read errors occurred in records 2198,2220,2242,2264 of file 1.
(301) D014939: Read errors occurred in records 1393,1689,1927 of file 1.
(302) D014940: Read errors occurred in records 665,1273,1300,3019,3909,3959,4188 of file 1.
(303) D018636: Read errors occurred in records 183,329 of file 1.
(304) D014981: Read error occurred in record 263 of file 1.
(305) D014976: Read errors occurred in records 68,421,2502,3811 of file 1.
(306) D014978: Read errors occurred in records 2095,2096,2097 of file 1.
(307) D019483: Read errors occurred in records 128,205,312,540,559,668 of file 1.
(308) D014917: Read error occurred in record 2144 of file 1.
(309) D014915: Read errors occurred in records 868,2036,2058,2125,2148,2170,2214,2215
2259,2281,2326,2348,2370 of file 1.
(310) D014916: Read error occurred in record 4 of file 1.
(311) D015016: Read errors occurred in records 541,567,572,5367 of file 1.
(312) D014913: Read error occurred in record 4 of file 1.
(313) D014911: Read errors occurred in records 1510,3469,3473 of file 1.
(314) D018949: Read errors occurred in records 3619,3652,3755,3756,3757,4052,4124,
4141,4143,4144,4145,4162,4163,4165,4184,4185,4187,4189 of file 1.
(315) D014737: Read errors occurred in records 243,1154 of file 1.
(316) D018952: Read errors occurred in records 29,33 of file 1.

(317) D015039: Read error occurred in record 1381 of file 1.
(318) D014779: Read errors occurred in records 1381,1382,1383,1384,1385,1386,1387,
1388,1389,1390,1391,1392,1393,1394,1395,1396,1397,1398,1399,1400,
1401,1402 of file 1.
(319) D014772: Read error occurred in record 4 of file 1.
(320) D014753: Read errors occurred in records 136,1990,9214,9277,9324,9338,9350,
9382,9395 of file 1.
(321) D014746: Read error occurred in record 2 of file 1.
(322) D014698: Read error occurred in record 1525 of file 1.
(323) D014695: Read errors occurred in records 1698,2661,2691,9644 of file 1.
(324) D014692: Read errors occurred in records 372,375,433,438,6130 of file 1.
(325) D014731: Read errors occurred in records 1359,1379,1399,1420,1440,1471,1472,

1473,1501,1562,1643,1663,1845 of file 1.
(326) D014728: Read errors occurred in records 71,370,468,558,1984,1985,2248 of file 1.
(327) D014717: Read error occurred in record 332 of file 1.
(328) D014710: Read errors occurred in records 116,226,414,425,528,701,953,9658 of file 1.
(329) D014708: Read error occurred in record 219 of file 1.
(330) D014706: Read errors occurred in records 161,237,357,573,987 of file 1.
(331) D014702: Read error occurred in record 5534 of file 1.
(332) D014926: Read errors occurred in records 29,180,192,209,238,239,273,396,569, 632,754,817,1031,9614,9839,9982 of file 1.
(333) D014869: Read errors occurred in records 2095,2548,2549,2566,2573,3268,3671 of file 1.
(334) D014983: Read error occurred in records 121,124,125,129,133,137,138,141,142,146, 150,154,157,158,159,162,163,167,171,173,675,677,678,3906,3957 of file 1.
(335) D014973: Read errors occurred in records 407,1012,1090,1248,1268,2464,4464 of file 1.
(336) D014968: Read errors occurred in records 1157,2878,5660,6632,7101,10964,11033, 11296,11614,11929,12109,12152 of file 1.
(337) D014949: Read errors occurred in records 989,2176,2296,2338,2420,2454,2471,2480, 2520,2589,2763,2879,3099,3115,6201,7397,7584,8745,8865,8866,8920,8955, 8956,8973,8992 of file 1.
(338) D014946: Read errors occurred in records 720,740,1247,1720,2913,2989,4229 of file 1.
(339) D014930: Read error occurred in record 3285 of file 1.
(340) D014861: Read errors occurred in records 553,2453 of file 1.
(341) D014860: Read errors occurred in records 29,2539,2588 of file 1.
(342) D014859: Read errors occurred in records 207,364,481 of file 1.
(343) D014851: Read errors occurred in records 1727,1884 of file 1.
(344) D014850: Read errors occurred in records 208,212,237,256,268,274,281,325,337,340,355, 379,397,398,410,411,427,428,468,482,497,498,521,538,539,540,545,551,553, 557,571,625,642,663,682,694,757,759,760,778,791,810,835,846,858,872,884, 896, 920,921,957,969,1012,1025,1037,1044,1049,1062,1111,1130,1135,1179, 1250,1268,1270,1287,1300,1317,1318,1360,1379,1429,1551,1588,1661,1662, 1675,1699,1712,1748,1771,1802,1838,1863,1899,1917,1918,1922,1935,1961, 1968, 1979,1986,1991,2004,2047,2059,2083,2106,2148,2229,2240,2253,2254, 2309, 2340,2350,2377,2394,2395,2407,2419,2458,2546,2596,2620,2621,2735, 2753, 2826,2845,2856,2891,3092,3102,3121,3146,3219,3225,3266,3284,3334, 3352,3512,3530,3586,3647,3712,3737,3750,3755,3762,3814,3859,3882,3960, 3973,4080,4142,4229,4442,4491,4607,4608,4632,4838,4902,5323,5408,5486, 5487,5499,5536,5662,5675,5676,5730,5854,5954,6039,6136,6378,6483,6630, 6803,7071,7135,7381,7596,7767,7771,7824 of file 1.
(345) D014847: Read errors occurred in records 1000,1002 of file 1.
(346) D014907: Read errors occurred in records 274,845 of file 1.
(347) D014889: Read errors occurred in records 62,76,720,1698,1755 of file 1.
(348) D014877: Read errors occurred in records 55,455,955,1992 of file 1.
(349) D014876: Read errors occurred in records 107,138,169,173,181,204,245,298,308,338, 372,382,383,405,449,450,499,561,569,611,620,640,646,688,777,778,859,878, 919,930,953,960,991,1000,1001,1011,1052,1061,1062,1063,1071,1072,1082, 1113,1124,1134,1165,1185,1196,1225,1235,1236,1246,1256,1275,1284,1286,

1306,1325,1334,1344,1355,1373,1383,1394,1413,1414,1424,1434,2425 of file 1.

(350) D014870: Read errors occurred in records 75,91,168,190,195,221,253,259,351,384,520, 590,614,615,617,618,619,621,698,706,711,719,720,732,737,741,744,751,765, 773,776,788,789,825,852,876,878,889,906,919,938,950,957,964,967,970,981, 987,1010,1012,1017,1052,1064,1067,1069,1070,1108,1130,1140,1141,1144, 1159,1177,1190,1201,1238,1241,1243,1248,1251,1261,1295,1300,1310,1314, 1336,1344,1361,1366,1372,1379,1407,1419,1422,1424,1434,1442,1462,1467, 1468,1477,1536,1554,1555,1560,1573,1599,1602,1605,1611,1619,1622,1626, 1641,1647,1659,1663,1673,1676,1679,1681,1700,1701,1719,1722,1728,1731, 1734,1737,1741,1743,1744,1778,1780,1796,1801,1810,1813,1846,1849,1864, 1875,1930,1945,1946,1964,1983,1988,2010,2078,2080,2081,2083,2087,2089, 2094,2100,2112,2128,2133,2158,2173,2178,2187,2195,2198,2213,2246,2266, 2269,2289,2305,2322,2332,2337,2338,2343,2353,2362,2368,2370,2379,2384, 2387,2390,2392,2393,2398,2401,2404,2407,2416,2421,2427,2428,2449,2452, 2478,2489,2494,2500,2508,2509,2526,2537,2548,2570,2578,2579,2581,2584, 2587,2592,2595,2598,2601,2603,2604,2609,2620,2642,2643,2658,2664,2670, 2675,2686,2697,2703,2709,2739,2752,2755,2761,2767,2776,2784,2792,2848, 2859,2870,2887,2903,2914,2915,2930,2941,2957,2980,2999,3008,3013,3022, 3080,3111,3117,3165,3167,3187,3192,3203,3209,3214,3234,3237,3247,3262, 3267,3270,3278,3300,3311,3319,3355,3377,3382,3393,3399,3410,3415,3432, 3437,3438,3446,3457,3463,3468,3469,3474,3479,3485,3490,3491,3496,3501, 3507,3529,3540,3559,3562,3567,3573,3578,3584,3593,3609,3635,3638,3642, 3653,3658,3664,3675,3697,3713,3719,3730,3735,3755,3760,3761,3763,3766, 3767,3771,3772,3783,3789,3800,3806,3816,3822,3827,3828,3833,3838,3839, 3843,3844,3849,3855,3860,3861,3877,3882,3883,3894,3899,3904,3910,3913, 3918,3919,3930,3938,3939,3944,3950,3969,3978,3999,4000,4005,4011,4022, 4027,4033,4038,4039,4040,4045,4055,4056,4072,4078,4088,4089,4097,4098, 4103,4108,4109,4114,4119,4120,4122,4125,4130,4131,4141,4152,4180,4185, 4190,4196,4201,4202,4207,4218,4223,4224,4229,4240,4262,4278,4283,4284, 4295,4300,4316,4317,4333,4339,4350,4371,4376,4388,4393,4404,4405,4410, 4415,4416,4426,4427,4432,4443,4465,4486,4487,4498,4503,4508,4509,4519, 4520,4525,4531,4542,4558,4564,4579,4580,4585,4591,4596,4602,4612,4613, 4618,4619,4635,4648,4651,4667,4678,4684,4689,4690,4695,4700,4706,4711, 4712,4717,4722,4723,4728,4744,4761,4766,4777,4782,4783,4788,4793,4794, 4799,4804,4805,4815,4816,4821,4848,4854,4859,4875,4892,4897,4903,4908, 4909,4914,4930,4931,4952,4963,4974,4985,5001,5007,5016,5021,5030,5035, 5040,5041,5046,5051,5052,5057,5089,5090,5095,5106,5112 of file 1.

(351) D014807: Read errors occurred in records 696,729,1600,2881,3040,3088,3303, 3327,3349,3369,3371 of file 1.

(352) D014805: Read errors occurred in records 104,245,253,268,304,316,324,339,358, 394, 409,433,445,480,501,509,520,524,543,544,548,571,572,595,606,618,641,662, 663,674,686,709,729,732,733,741,752,755,759,767,775,776,803,811,814,822, 846,873,897,916,931,943,966,985,986,1009,1013,1018,1030,1034,1045,1053, 1057,1077,1080,1088,1111,1139,1176,1193,1216,1224,1251,1260,1270,1286,

1297,1347,1355,1382,1389,1424,1451,1470,1494,1521,1573,1633,1637,1642,
1797,1912,2276,2423,2457,2509,2515,2527,2537,2605,2655,2749,2793,2838,
2861,2872,2906,2951,2996,3016,3047,3048,3081,3170,3205,3214,3220,3231,
3309,3316,3374,3385,3417,3418,3454,3480,3533,3618,3635,3636,3661,3662,
3671,3679,3680,3710,3724,3760,3817,3828,3878,3879,3904,3905,3915,3949,
3974,4053,4054,4062,4112,4113,4121,4276,4292,4293,4301,4378,4411,4412,
4430,4464,4540,4555,4592,4598,4628,4730,4833,4859,4940,4948,4973,4984,
5035,5078,5079,5104,5183,5286,5329,5372,5486,5493,5522,5529,5625,5641,
5642,5728,5755,5884,5997,6024,6032,6033,6119,6180,6188,6336,6415,6416,
6423,6424,6486,6493,6527,6530,6537,6615,6640,6641,6693,6701,6702,6797,
6806,6870,7033,7034,7051,7069,7084,7085,7146,7156,7182,7197,7198,7207,
7208,7219,7221,7232,7240,7243,7250,7251,7301,7302,7337,7350,7357,7375,
7382,7383,7443,7444,7445,7453,7470,7478,7485,7505,7506,7520,7548,7567,
7608,7609,7610,7634,7643,7644,7670,7679,7731,7732,7751,7766,7792,7833,
7834,7853,7860,7861,7889,7895,7903,7914,7915,7940,7976,8078,8086,8401,
8480,8481,8487,8514,8602,8627,8837,8943 of file 1.

(353) D014803: Read errors occurred in records 497,8076,8110 of file 1.

(354) D014802: Read errors occurred in records 23,31,32,34,35,44,45,47,48,50,51,53,56,57,
62,63,65,66,70,71,79,83,88,92,101,104,105,126,127,132,135,144,145,148,
157,170,175,188,191,192,213,214,222,231,235,236,256,257,262,266,278,288,
300,309,321,322,336,343,344,352,361,365,374,379,387,408,430,435,439,447,
448,451,452,469,473,482,494,495,503,516,538,559,560,564,568,581,589,602,
611,620,623,624,645,654,666,675,688,709,731,903,954,976,1018,1095,1116,
1159,1237,1253,1265,1350,1371,1393,1414,1430,1498,1541,1583,1604,1688,
1793,2061,2733,2782,3182,3508,4484 of file 1.

(355) D014797: Read errors occurred in records 12,13,14,15,16,17,18,19,20,21,22,23,24,
25,26,27,28,29,30,31,32 of file 1.

(356) D014788: Read errors occurred in records 112,113,133,155,777 of file 1.

(357) D014626: Read errors occurred in records 187,238,428,433,434,439,444,471,475,537,
712,713,731,784,800,851,859,867,938,1176,1340,2523,2554,2587,2649,2698,
2825 of file 1.

(358) D014618: Read errors occurred in records 37,1375,2221,2224,2232,2240,2241,2244,
2247,2263,2271,2280,2286,2305,2366,2381,2405,2418,2502,2560,2568,
2579,2637,2643,2656,2676,2695,2714,2753, 2772,2810,2849,2864,2868,
2906,2962,3003,3060,3079,3136,3140,3142,3155,3161,3174,3199,3212,3231,
3269,3307,3313,3318,3327,3332,3346,3351,3356,3364,3365,3370,3394,3427,
3432,3440,3459,3478,3489,3497,3516,3535,3554,3560,3573,3584,3592,3618,
3712,3754,3885,3900,3919,3975,4073,4110,4129,4144,4434,4452,4600,4663,
4729,4792,4858,4921,4968,5031,5078,5104,5206,5250 of file 1.

(359) D014610: Read errors occurred in records 32,470,572,609,895,1080,1228,1353,1456,1557,
3619 of file 1.

(360) D014604: Read errors occurred in records 15,16,19,294,373,374,377,384,760,778,781,785,
786,823,1172,1194,1750,1791,5761,6590 of file 1.

(361) D014603: Read errors occurred in records 536,601,1724,1732,2441,8582,8583,8586 of
file 1.

(362) D014675: Read errors occurred in records 276,809,1274,1275,1278,1279,1280,1281,1282, 1372,1373,1382,1384,1385,1386,1387,1403,1406,1426,1448,1449,1471,1494, 1516,1517,1539,1561,1562,1565,1584,1585,1607,1610 of file 1.
(363) D014668: Read errors occurred in records 996,4662 of file 1.
(364) D014659: Read error occurred in record 2039 of file 1.
(365) D014658: Read errors occurred in records 82,182,575,581,717,1544,1651,2224,2271,2301, 2696,3268,3269,3273,3328 of file 1.
(366) D014653: Read errors occurred in records 2690,2713,2714,2715,2716,2735 of file 1.

APOLLO 16

RAW DOPPLER FREQUENCY DATA TAPES

72-031D-03A

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 81 7-TRACK, 800 BPI TAPES, WRITTEN IN BINARY. THERE ARE 14 RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THERE ARE SOME TAPES THAT WERE NOT STACKED IN TIME SEQUENTIAL ORDER. THE FOLLOWING TAPES, D014984, D014528-29, AND D014529, WERE UNREADABLE. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
DR005373	DS005373	D014526	1	04/28/72 - 04/28/72
		D014527	2	04/27/72 - 04/28/72
		D014984	3	04/29/72 - 04/30/72
		D014524	4	04/30/72 - 05/01/72
		D014523	5	05/02/72 - 05/02/72
		D014521	6	05/03/72 - 05/03/72
DR005374	DS005374	D014522	1	05/03/72 - 05/03/72
		D014577	2	05/04/72 - 05/04/72(a)
		D014530	3	05/06/72 - 05/06/72
		D014531	4	05/07/72 - 05/07/72
		D014532	5	05/08/72 - 05/08/72
		D014533	6	05/09/72 - 05/09/72
DR005375	DS005375	D014534	1	05/10/72 - 05/10/72
		D014537	2	05/10/72 - 05/10/72
		D014538	3	05/10/72 - 05/11/72(b)
		D014536	4	05/10/72 - 05/10/72(c)
		D014535	5	05/10/72 - 05/10/72(d)
		D014539	6	05/11/72 - 05/11/72(e)
DR005376	DS005376	D014541	1	05/11/72 - 05/11/72
		D014540	2	05/11/72 - 05/11/72(f)
		D014986	3	05/11/72 - 05/11/72
		D014542	4	05/11/72 - 05/11/72(g)
		D014543	5	05/11/72 - 05/12/72(h)
		D014546	6	05/12/72 - 05/12/72

DR#	DS#	DD#	FILES	TIME SPAN
DR005377	DS005377	D014548	1	05/12/72 - 05/12/72
		D014545	2	05/12/72 - 05/12/72
		D014544	3	05/12/72 - 05/12/72(i)
		D014547	4	05/12/72 - 05/12/72
		D014549	5	05/12/72 - 05/13/72(j)
		D014987	6	05/13/72 - 05/13/72
DR005378	DS005378	D014558	1	05/13/72 - 05/14/72
		D014555	2	05/13/72 - 05/13/72
		D014553	3	05/13/72 - 05/13/72
		D014550	4	05/13/72 - 05/13/72
		D014560	5	05/14/72 - 05/14/72(k)
		D014589	6	05/28/72 - 05/28/72
DR005379	DS005379	D014559	1	05/14/72 - 05/14/72
		D014554	2	05/14/72 - 05/14/72
		D014552	3	05/13/72 - 05/13/72
		D014551	4	05/14/72 - 05/14/72
		D014557	5	05/14/72 - 05/14/72
		D014566	6	05/15/72 - 05/15/72
DR005380	DS005380	D014564	1	05/15/72 - 05/15/72(l)
		D014563	2	05/15/72 - 05/15/72
		D014561	3	05/15/72 - 05/15/72
		D014562	4	05/15/72 - 05/15/72
		D014988	5	05/16/72 - 05/16/72
		D014568	6	05/16/72 - 05/16/72
DR005381	DS005381	D014569	1	05/16/72 - 05/16/72
		D014571	2	05/16/72 - 05/16/72
		D014565	3	05/15/72 - 05/15/72
		D014567	4	05/16/72 - 05/16/72
		D014575	5	05/17/72 - 05/17/72
		D014574	6	05/17/72 - 05/17/72
DR005382	DS005382	D014573	1	05/17/72 - 05/17/72(m)
		D014572	2	05/17/72 - 05/17/72
		D014570	3	05/16/72 - 05/16/72
		D014576	4	05/18/72 - 05/18/72
		D014989	5	05/18/72 - 05/18/72
		D014585	6	05/18/72 - 05/18/72
DR005383	DS005383	D014580	1	05/19/72 - 05/19/72
		D014587	2	05/19/72 - 05/19/72
		D014578	3	05/20/72 - 05/20/72
		D014579	4	05/20/72 - 05/20/72
		D014583	5	05/19/72 - 05/19/72(n)
		D014581	6	05/21/72 - 05/21/72

DR#	DS#	DD#	FILES	TIME SPAN
DR005384	DS005384	D014582	1	05/21/72 - 05/21/72(o)
		D014990	2	05/22/72 - 05/22/72
		D014586	3	05/22/72 - 05/22/72(p)
		D014588	4	05/23/72 - 05/23/72(q)
		D014593	5	05/24/72 - 05/24/72
		D014592	6	05/25/72 - 05/25/72
DR005385	DS005385	D014591	1	05/11/72 - 05/11/72(r)
		D014590	2	05/14/72 - 05/14/72
DR005386	DS005386	D014991	1	05/29/72 - 05/29/72
		D014525	2	04/29/72 - 04/29/72(s)
		D014985	3	05/18/72 - 05/18/72

(a) I/O ERROR ON FILE 1, RECORD 223
(b) I/O ERROR ON FILE 1, RECORD 199
(c) I/O ERROR ON FILE 1, RECORD 464
(d) I/O ERROR ON FILE 1, RECORD 253
(e) I/O ERROR ON FILE 1, RECORD 26, 89, 216,458
(f) I/O ERROR ON FILE 1, RECORD 3094
(g) I/O ERROR ON FILE 1, RECORD 1292
(h) I/O ERROR ON FILE 1, RECORD 986, 8699
(i) I/O ERROR ON FILE 1, RECORD 799, 1150, 1730, 2544
(j) I/O ERROR ON FILE 1, RECORD 1118
(k) I/O ERROR ON FILE 1, RECORD 8155
(l) I/O ERROR ON FILE 1, RECORD 1641
(m) I/O ERROR ON FILE 1, RECORD 165, 166, 937
(n) I/O ERROR ON FILE 1, RECORD 1204,1207
(o) I/O ERROR ON FILE 1, RECORD 429, 713
(p) I/O ERROR ON FILE 1, RECORD 860
(q) I/O ERROR ON FILE 1, RECORD 8049, 8051
(r) I/O ERROR ON FILE 1, RECORD 2763, 2784
(s) I/O ERROR ON FILE 1, RECORD 5203

REQ. AGENT
ROP

RAND NO.
RC0611

ACQ. AGENT
LRD

APOLLO 15 and 16

71-063D-03A and 72-031D-03A

JSC RAW DOPPLER FREQUENCY

This data set catalog consists of 590 Apollo 15 and 75 Apollo 16 JSC Raw Doppler Frequency data tapes. The tapes are 800 BPI, Binary, 7 track tapes created on a 7094 computer. Each tape contains one file.

APOLLO 16 72-031D-03A

D#	C#	TIME SPAN
D-14521	C-11632	5/02/72 - 5/02/72
D-14522	C-11692	5/02/72 - 5/02/72
D-14523	C-11633	5/01/72 - 5/01/72
D-14524	C-11634	4/29/72 - 4/29/72
D-14526	C-11635	4/27/72 - 4/27/72
D-14527	C-11636	4/27/72 - 4/27/72
D-14530	C-11693	5/05/72 - 5/05/72
D-14531	C-11637	5/06/72 - 5/07/72
D-14532	C-11638	5/07/72 - 5/07/72
D-14533	C-11639	5/08/72 - 5/08/72
D-14534	C-11694	5/09/72 - 5/09/72
D-14535	C-11640	5/09/72 - 5/09/72
D-14536	C-11641	5/09/72 - 5/09/72
D-14537	C-11642	5/09/72 - 5/09/72
D-14538	C-11643	5/09/72 - 5/10/72
D-14539	C-11644	5/10/72 - 5/10/72
D-14540	C-11695	5/10/72 - 5/10/72
D-14541	C-11645	5/10/72 - 5/10/72
D-14542	C-11646	5/10/72 - 5/10/72
D-14543	C-11707	5/11/72 - 5/12/72
D-14544	C-11647	5/11/72 - 5/11/72
D-14545	C-11648	5/11/72 - 5/11/72
D-14546	C-11649	5/11/72 - 5/11/72
D-14547	C-11708	5/12/72 - 5/12/72
D-14548	C-11650	5/11/72 - 5/11/72
D-14549	C-11709	5/12/72 - 5/13/72
D-14550	C-11710	5/13/72 - 5/13/72

D#	C#	TIME SPAN
D-14551	C-11711	5/14/72 - 5/14/72
D-14553	C-11651	5/12/72 - 5/12/72
D-14554	C-11652	5/13/72 - 5/13/72
D-14555	C-11653	5/12/72 - 5/12/72
D-14557	C-11712	5/14/72 - 5/14/72
D-14558	C-11654	5/12/72 - 5/12/72
D-14559	C-11655	5/13/72 - 5/13/72
D-14560	C-11656	5/13/72 - 5/13/72
D-14561	C-11657	5/14/72 - 5/14/72
D-14562	C-11713	5/15/72 - 5/15/72
D-14563	C-11658	5/14/72 - 5/14/72
D-14564	C-11659	5/14/72 - 5/14/72
D-14565	C-11714	5/15/72 - 5/15/72
D-14566	C-11660	5/14/72 - 5/14/72
D-14567	C-11715	5/16/72 - 5/16/72
D-14568	C-11661	5/15/72 - 5/15/72
D-14569	C-11662	5/15/72 - 5/15/72
D-14570	C-11716	5/16/72 - 5/16/72
D-14571	C-11663	5/15/72 - 5/15/72
D-14572	C-11664	5/16/72 - 5/16/72
D-14573	C-11665	5/16/72 - 5/16/72
D-14574	C-11666	5/16/72 - 5/16/72
D-14575	C-11667	5/16/72 - 5/16/72
D-14576	C-11668	5/17/72 - 5/17/72
D-14577	C-11669	5/03/72 - 5/03/72
D-14578	C-11670	5/19/72 - 5/19/72
D-14579	C-11671	5/19/72 - 5/19/72
D-14580	C-11672	5/18/72 - 5/18/72
D-14581	C-11737	5/21/72 - 5/21/72

D#	C#	TIME SPAN
D-14582	C-11738	5/21/72 - 5/21/72
D-14583	C-11739	5/19/72 - 5/19/72
D-14585	C-11673	5/17/72 - 5/17/72
D-14586	C-11740	5/22/72 - 5/22/72
D-14587	C-11674	5/18/72 - 5/18/72
D-14588	C-11675	5/22/72 - 5/22/72
D-14589	C-11676	5/13/72 - 5/13/72
D-14590	C-11677	5/26/72 - 5/26/72
D-14591	C-11678	5/25/72 - 5/25/72
D-14592	C-11679	5/24/72 - 5/24/72
D-14593	C-11680	5/23/72 - 5/23/72
D-14984	C-11549	4/28/72 - 4/29/72
D-14986	C-11550	5/10/72 - 5/10/72
D-14987	C-11551	5/12/72 - 5/12/72
D-14988	C-11552	5/15/72 - 5/15/72
D-14989	C-11553	5/17/72 - 5/17/72
D-14990	C-11554	5/21/72 - 5/21/72
D-14991	C-11555	5/28/72 - 5/28/72

APOLLO 15 (71-063D-03A)

D#	C#	TIME SPAN
D-14594 D-14595	C-11741	8/11/71 - 8/11/71
D-14596	C-11742	8/10/71 - 8/10/71
D-14597	C-11743	8/08/71 - 8/08/71
D-14598	C-11744	8/13/71 - 8/13/71
D-14599	C-11745	8/15/71 - 8/15/71
D-14600	C-11746	8/14/71 - 8/14/71
D-14601	C-11747	8/09/71 - 8/09/71
D-14602	C-11748	6/30/72 - 6/30/72
D-14605	C-11749	6/25/72 - 6/25/72
D-14606	C-11750	6/24/72 - 6/24/72
D-14607	C-11751	6/23/72 - 6/23/72
D-14608	C-11752	6/22/72 - 6/22/72
D-14609	C-11753	12/06/71 - 12/06/71
D-14611	C-11754	12/07/71 - 12/07/71
D-14612	C-11755	12/07/71 - 12/07/71
D-14613	C-11820	12/07/71 - 12/07/71
D-14614	C-11756	12/06/71 - 12/06/71
D-14615	C-11757	12/06/71 - 12/06/71
D-14616	C-11758	12/06/71 - 12/06/71
D-14617	C-11759	12/01/71 - 12/01/71
D-14619	C-11760	12/01/71 - 12/01/71
D-14620	C-11761	11/30/71 - 11/30/71
D-14621	C-11873	11/29/71 - 11/29/71
D-14622	C-11874	11/29/71 - 11/29/71
D-14623	C-11821	11/27/71 - 11/27/71
D-14625	C-11822	9/29/71 - 9/29/71
D-14627	C-11823	9/29/71 - 9/29/71
D-14628	C-11824	9/29/71 - 9/29/71

D#	C#	TIME SPAN
D-14629	C-11875	9/29/71 - 9/29/71
D-14630	C-11825	9/28/71 - 9/28/71
D-14631	C-11826	9/28/71 - 9/28/71
D-14632	C-11827	9/28/71 - 9/28/71
D-14633	C-11828	9/28/71 - 9/28/71
D-14634	C-11829	9/28/71 - 9/28/71
D-14635	C-11830	9/28/71 - 9/28/71
D-14636	C-11876	9/27/71 - 9/27/71
D-14637	C-11877	9/27/71 - 9/27/71
D-14638	C-11831	9/26/71 - 9/26/71
D-14639	C-11832	9/25/71 - 9/25/71
D-14640	C-11833	9/24/71 - 9/24/71
D-14641	C-11834	9/23/71 - 9/23/71
D-14642	C-11835	10/04/71 - 10/04/71
D-14643	C-11836	10/04/71 - 10/04/71
D-14644	C-11878	10/04/71 - 10/04/71
D-14645	C-11879	10/04/71 - 10/04/71
D-14646	C-11837	10/03/71 - 10/03/71
D-14647	C-11838	10/03/71 - 10/03/71
D-14650	C-11839	12/09/71 - 12/09/71
D-14651	C-11840	12/08/71 - 12/09/71
D-14652	C-11841	12/08/71 - 12/08/71
D-14654	C-11842	12/08/71 - 12/08/71
D-14655	C-11843	12/08/71 - 12/08/71
D-14656	C-11880	12/07/71 - 12/08/71
D-14657	C-11844	12/07/71 - 12/07/71
D-14660	C-11881	8/22/71 - 8/22/71
D-14661	C-11998	8/21/71 - 8/21/71

D#	C#	TIME SPAN
D-14662	C-11882	8/19/71 - 8/19/71
D-14663	C-11883	8/18/71 - 8/18/71
D-14664	C-11884	8/17/71 - 8/17/71
D-14665	C-11885	8/16/71 - 8/16/71
D-14666	C-11886	5/06/72 - 5/06/72
D-14667	C-11887	5/05/72 - 5/05/72
D-14669	C-11999	5/03/72 - 5/03/72
D-14670	C-11888	5/01/72 - 5/01/72
D-14671	C-11889	4/28/72 - 4/28/72
D-14672	C-11890	4/30/72 - 4/30/72
D-14673	C-11891	4/29/72 - 4/29/72
D-14674	C-11892	5/28/72 - 5/28/72
D-14676	C-11893	5/24/72 - 5/25/72
D-14677	C-11894	5/22/72 - 5/23/72
D-14678	C-11895	5/22/72 - 5/22/72
D-14679	C-12001	5/29/72 - 5/30/72
D-14680	C-11896	5/23/72 - 5/24/72
D-14681	C-11897	5/29/72 - 5/29/72
D-14682	C-11898	11/17/71 - 11/17/71
D-14683	C-11899	11/16/71 - 11/16/71
D-14683	C-11900	11/15/71 - 11/15/71
D-14686	C-11901	11/12/71 - 11/12/71
D-14687	C-12002	11/11/71 - 11/11/71
D-14688	C-11902	11/10/71 - 11/10/71
D-14689	C-11903	11/09/71 - 11/09/71
D-14691	C-12000	9/21/71 - 9/21/71
D-14693	C-12241	9/19/71 - 9/19/71
D-14694	C-12242	9/17/71 - 9/17/71

D#	C#	TIME SPAN
D-14696	C-12243	9/15/71 - 9/15/71
D-14697	C-12244	9/14/71 - 9/14/71
14,98		6/6/72 - 6/6/72
D-14703	C-12245	6/08/72 - 6/08/72
D-14705	C-12246	10/02/71 - 10/02/71
D-14707	C-12247	10/02/71 - 10/02/71
D-14709	C-12248	10/03/71 - 10/03/71
D-14711	C-12249	10/02/71 - 10/02/71
D-14712	C-12250	10/01/71 - 10/01/71
D-14713	C-12251	10/01/71 - 10/01/71
D-14714	C-12252	10/21/71 - 10/21/71
D-14715	C-12253	10/20/71 - 10/20/71
D-14716	C-12254	10/19/71 - 10/19/71
D-14718	C-12255	10/16/71 - 10/16/71
D-14719	C-12256	10/15/71 - 10/15/71
D-14720	C-12257	10/14/71 - 10/14/71
D-14721	C-12258	10/13/71 - 10/13/71
D-14722	C-12259	12/18/71 - 12/18/71
D-14723	C-12260	12/19/71 - 12/19/71
D-14724	C-12261	12/19/71 - 12/19/71
D-14725	C-12262	12/18/71 - 12/18/71
D-14726	C-12293	12/18/71 - 12/18/71
D-14727	C-12263	12/18/71 - 12/18/71
D-14729	C-12294	10/11/71 - 10/11/71
D-14730	C-12295	10/10/71 - 10/10/71
D-14732	C-12296	10/07/71 - 10/07/71
D-14733	C-12264	10/06/71 - 10/06/71
D-14735	C-12265	10/04/71 - 10/04/71
D-14736	C-12266	8/01/72 - 8/01/72
D-14737	C-12297	8/03/72 - 8/03/72

D#	C#	TIME SPAN
D-14738	C-12298	8/04/72 - 8/04/72
D-14739	C-12267	6/14/72 - 6/14/72
D-14740	C-12268	6/21/72 - 6/21/72
D-14741	C-12269	6/20/72 - 6/20/72
D-14742	C-12270	6/19/72 - 6/19/72
D-14743	C-12271	6/12/72 - 6/12/72
D-14744	C-12272	6/15/72 - 6/15/72
D-14745	C-12273	6/16/72 - 6/16/72
D-14747	C-12274	11/05/71 - 11/05/71
1474 6 D-14748	C-12275	11/04/71 - 11/04/71
D-14749	C-12276	11/08/71 - 11/08/71
D-14750	C-12299	11/07/71 - 11/07/71
D-14751	C-12277	11/03/71 - 11/03/71
D-14752	C-12300	11/02/71 - 11/02/71
1475 3 D-14754	C-12301	10/31/71 - 10/31/71
D-14755	C-12302	12/06/71 - 12/06/71
D-14756	C-12304	12/05/71 - 12/06/71
D-14757	C-12305	12/05/71 - 12/05/71
D-14758	C-12306	12/04/71 - 12/04/71
59 D-14760	C-12307	12/05/71 - 12/05/71
D-14761	C-12308	12/05/71 - 12/05/71
D-14762	C-12309	12/05/71 - 12/05/71
D-14763	C-12310	11/26/71 - 11/26/71
D-14764	C-12311	11/25/71 - 11/25/71
D-14765	C-12312	11/24/71 - 11/24/71
D-14766	C-12313	11/23/71 - 11/23/71
D-14767	C-12314	11/22/71 - 11/22/71
D-14768	C-12315	11/20/71 - 11/20/71

D#	C#	TIME SPAN
D-14769	C-12316	11/19/71 - 11/19/71
D-14770	C-12317	11/18/71 - 11/18/71
D-14771	C-12318	12/12/71 - 12/12/71
D-14772		12/12/71 12/12/71
D-14773	C-12319	12/11/71 - 12/12/71
D-14774	C-12320	12/11/71 - 12/11/71
D-14775	C-12321	12/11/71 - 12/11/71
D-14776	C-12322	12/11/71 - 12/11/71
D-14777	C-12323	12/11/71 - 12/11/71
D-14778	C-12324	12/10/71 - 12/11/71
D-14779		12/15/71 - 12/15/71
D-14780	C-12325	12/15/71 - 12/15/71
D-14781	C-12326	12/14/71 - 12/14/71
D-14782	C-12327	12/14/71 - 12/14/71
D-14783	C-12328	12/14/71 - 12/14/71
D-14784	C-12329	12/14/71 - 12/14/71
D-14785	C-12330	12/14/71 - 12/14/71
D-14787	C-12331	10/01/71 - 10/01/71
D-14789	C-12332	9/30/71 - 9/30/71
D-14790	C-12511	9/30/71 - 9/30/71
D-14791	C-12512	9/30/71 - 9/30/71
D-14792	C-12513	9/30/71 - 9/30/71
D-14793	C-12514	12/20/71 - 12/20/71
D-14794	C-12515	12/29/71 - 12/29/71
D-14795	C-12516	12/28/71 - 12/28/71
D-14798	C-12517	12/23/71 - 12/23/71
D-14799	C-12518	12/22/71 - 12/22/71

D#	C#	TIME SPAN
D-14800	C-12519	12/21/71 - 12/21/71
D-14801	C-12520	5/30/72 - 5/30/72
D-14804	C-12521	6/05/72 - 6/05/72
D-14806	C-12522	6/02/72 - 6/02/72
D-14808	C-12523	3/03/72 - 3/03/72
D-14809	C-12524	3/04/72 - 3/04/72
D-14811	C-12525	3/01/72 - 3/01/72
D-14812	C-12526	2/26/72 - 2/26/72
D-14813	C-12527	2/27/72 - 2/27/72
D-14814	C-12528	2/25/72 - 2/25/72
D-14815	C-12529	12/13/71 - 12/14/71
D-14816	C-12530	12/13/71 - 12/13/71
D-14817	C-12531	12/13/71 - 12/13/71
D-14818	C-12532	12/13/71 - 12/13/71
D-14819	C-12533	12/13/71 - 12/13/71
D-14822	C-12534	12/12/71 - 12/12/71
D-14823	C-12535	12/12/71 - 12/12/71
D-14824	C-12536	10/30/71 - 10/30/71
D-14825	C-12537	10/29/71 - 10/29/71
D-14826	C-12538	10/28/71 - 10/28/71
D-14828	C-12539	10/25/71 - 10/25/71
D-14829	C-12540	10/24/71 - 10/24/71
D-14831	C-12541	10/22/71 - 10/22/71
D-14832	C-12589	2/22/72 - 2/22/72
D-14833	C-12590	2/21/72 - 2/21/72
D-14834	C-12591	2/20/72 - 2/20/72
D-14836	C-12592	2/17/72 - 2/17/72
D-14837	C-12593	2/23/72 - 2/23/72
D-14838	C-12594	2/24/72 - 2/24/72

D#	C#	TIME SPAN
D-14839	C-12595	2/19/72 - 2/19/72
D-14840	C-12596	1/25/72 - 1/25/72
D-14841	C-12597	1/24/72 - 1/24/72
D-14842	C-12598	1/23/72 - 1/23/72
D-14843	C-12599	1/17/72 - 1/17/72
D-14844	C-12600	1/19/72 - 1/19/72
D-14845	C-12601	1/18/72 - 1/18/72
D-14846	C-12602	1/21/72 - 1/21/72
D-14849	C-12603	2/15/72 - 2/15/72
D-14852	C-12604	2/11/72 - 2/11/72
D-14853	C-12605	2/10/72 - 2/10/72
D-14854	C-12606	2/09/72 - 2/09/72
D-14855	C-12607	2/16/72 - 2/16/72
D-14856	C-12608	3/17/72 - 3/17/72
D-14857	C-12609	3/15/72 - 3/15/72
D-14858	C-12610	3/13/72 - 3/13/72
D-14862	C-13815	3/07/72 - 3/07/72
D-14863	C-13816	12/04/71 - 12/04/71
D-14864	C-13817	12/04/71 - 12/04/71
D-14865	C-13818	12/04/71 - 12/04/71
D-14866	C-13819	3/06/72 - 3/06/72
D-14867	C-13820	12/04/71 - 12/04/71
D-14868	C-13821	12/03/71 - 12/03/71
D-14871	C-13822	9/13/71 - 9/13/71
D-14872	C-13823	9/12/71 - 9/12/71
D-14873	C-13824	9/11/71 - 9/11/71
D-14874	C-13825	9/10/71 - 9/10/71
D-14878	C-13826	9/06/71 - 9/06/71
D-14879	C-13827	12/03/71 - 12/03/71

D#	C#	TIME SPAN
D-14880	C-13828	12/02/71 - 12/02/71
D-14881	C-13829	12/02/71 - 12/02/71
D-14882	C-13830	12/01/71 - 12/01/71
D-14883	C-13831	12/01/71 - 12/01/71
D-14884	C-13832	12/02/71 - 12/02/71
D-14885	C-13833	12/02/71 - 12/02/71
D-14886	C-13834	12/02/71 - 12/02/71
D-14887	C-13835	1/07/72 - 1/07/72
D-14888	C-13836	1/06/72 - 1/06/72
D-14891	C-13837	1/02/72 - 1/02/72
D-14892	C-13838	1/01/72 - 1/01/72
D-14893	C-13839	12/31/71 - 12/31/71
D-14894	C-13840	12/30/71 - 12/30/71
D-14895	C-13841	2/07/72 - 2/07/72
D-14896	C-13842	2/02/72 - 2/02/72
D-14897	C-13843	2/01/72 - 2/01/72
D-14898	C-13844	1/30/72 - 1/30/72
D-14899	C-13845	1/26/72 - 1/26/72
D-14900	C-13846	1/27/72 - 1/27/72
D-14901	C-13847	12/28/72 - 12/28/72
D-14902	C-13848	1/16/72 - 1/16/72
D-14903	C-13849	1/15/72 - 1/17/72
D-14904	C-13850	1/14/72 - 1/14/72
D-14905	C-13851	1/13/72 - 1/13/72
D-14906	C-13852	1/11/72 - 1/11/72
D-14908	C-13853	1/09/72 - 1/09/72
D-14909	C-13854	1/08/72 - 1/08/72
D-14910	C-13855	7/30/72 - 7/30/72
D-14911	C-13856	7/31/72 - 7/31/72

D#	C#	TIME SPAN
D-14912	C-14172	7/28/72 - 7/28/72
D-14913	C-14173	7/29/72 - 7/29/72
D-14914	C-14174	7/23/72 - 7/23/72
D-14915	C-14175	7/24/72 - 7/24/72
D-14916	C-14176	7/26/72 - 7/26/72
D-14917	C-14177	7/22/72 - 7/22/72
D-14918	C-14178	12/18/71 - 12/18/71
D-14920	C-14179	12/17/71 - 12/17/71
D-14921	C-14180	12/17/71 - 12/17/71
D-14922	C-14181	12/17/71 - 12/17/71
D-14923	C-14182	12/17/71 - 12/17/71
D-14924	C-14183	12/17/71 - 12/17/71
D-14925	C-14184	12/16/71 - 12/16/71
D-14927	C-14185	12/16/71 - 12/16/71
D-14928	C-14186	12/16/71 - 12/16/71
D-14929	C-14187	12/16/71 - 12/16/71
D-14931	C-14188	12/15/71 - 12/15/71
D-14932	C-14189	7/03/72 - 7/03/72
D-14933	C-14190	12/15/71 - 12/15/71
D-14934	C-14191	7/04/72 - 7/04/72
D-14935	C-14192	12/15/71 - 12/15/71
D-14936	C-14193	7/02/72 - 7/02/72
D-14937	C-14194	7/01/72 - 7/01/72
D-14938	C-14195	7/06/72 - 7/06/72
D-14936	C-14196	7/07/72 - 7/07/72
D-14940	C-14197	7/08/72 - 7/08/72
D-14941	C-14198	7/10/72 - 7/10/72
D-14942	C-14358	5/08/72 - 5/09/72

D#	C#	TIME SPAN
D-14943	C-14359	5/09/72 - 5/10/72
D-14944	C-14360	5/07/72 - 5/07/72
D-14945	C-14361	5/21/72 - 5/21/72
D-14947	C-14362	5/18/72 - 5/18/72
D-14948	C-14363	5/17/72 - 5/17/72
D-14950	C-14364	3/29/72 - 3/29/72
D-14951	C-14365	3/28/72 - 3/28/72
D-14952	C-14366	3/27/72 - 3/27/72
D-14953	C-14367	3/26/72 - 3/26/72
D-14954	C-14368	3/23/72 - 3/23/72
D-14955	C-14369	3/22/72 - 3/22/72
D-14956	C-14370	3/21/72 - 3/21/72
D-14957	C-14371	3/20/72 - 3/20/72
D-14958	C-14372	12/10/71 - 12/10/71
D-14959	C-14373	12/10/71 - 12/10/71
D-14960	C-14374	12/10/71 - 12/10/71
D-14961	C-14375	12/10/71 - 12/10/71
D-14962	C-14376	12/09/71 - 12/10/71
D-14963	C-14377	12/09/71 - 12/09/71
D-14964	C-14378	12/09/71 - 12/09/71
D-14965	C-14379	12/09/71 - 12/09/71
D-14966	C-14380	12/09/71 - 12/09/71
D-14967	C-14381	9/03/71 - 9/03/71
D-14969	C-14382	8/31/71 - 8/31/71
D-14970	C-14383	8/30/71 - 8/30/71
D-14971	C-14384	8/28/71 - 8/28/71
D-14972	C-14503	8/27/71 - 8/27/71
D-14973	C-14504	8/26/71 - 8/26/71
D-14974	C-14505	8/25/71 - 8/25/71

D#	C#	TIME SPAN
D-14975	C-14506	7/16/72 - 7/16/72
D-14976	C-14507	7/18/72 - 7/18/72
D-14977	C-14508	7/19/72 - 7/19/72
D-14978	C-14509	7/20/72 - 7/20/72
D-14979	C-14510	7/12/72 - 7/12/72
D-14980	C-14511	7/13/72 - 7/13/72
D-14981	C-14512	7/14/72 - 7/14/72
D-14982	C-14513	7/15/72 - 7/15/72
D-14992	C-11500	8/11/71 - 8/11/71
D-14993	C-11501	10/02/71 - 10/02/71
D-14994	C-11502	9/26/71 - 9/26/71
D-14995	C-11503	6/26/72 - 6/26/72
D-14996	C-11504	8/19/71 - 8/19/71
D-14997	C-11505	12/07/71 - 12/07/71
D-14998	C-11506	12/05/71 - 12/06/71
D-14999	C-11507	9/17/71 - 9/17/71
D-15000	C-11508	11/12/71 - 11/12/71
D-15001	C-11509	11/29/71 - 11/29/71
D-15002	C-11510	10/16/71 - 10/16/71
D-15003	C-11511	9/30/71 - 9/30/71
D-15004	C-11512	9/28/71 - 9/28/71
D-15005	C-11513	10/07/71 - 10/07/71
D-15006	C-11514	10/18/71 - 12/18/71
D-15007	C-11515	5/01/72 - 5/01/72
D-15008	C-11516	6/17/72 - 6/17/72
D-15009	C-11517	8/02/71 - 8/02/71
D-15010	C-11518	5/25/72 - 5/26/72
D-15011	C-11519	11/05/71 - 11/05/71
D-15012	C-11520	2/12/72 - 2/12/72

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D#	C#	TIME SPAN
D-15013	C-11521	6/05/72 - 6/05/72
D-15014	C-11522	8/28/71 - 8/28/71
D-15015	C-11523	5/19/72 - 5/19/72
D-15016	C-11524	7/27/72 - 7/27/72
D-15017	C-11525	1/30/72 - 1/30/72
D-15018	C-11526	3/24/72 - 3/24/72
D-15019	C-11527	7/04/72 - 7/04/72
D-15020	C-11528	1/11/72 - 1/11/72
D-15022	C-11529	12/13/71 - 12/13/71
D-15023	C-11530	12/26/71 - 12/26/71
D-15024	C-11531	9/29/71 - 9/29/71
D-15025	C-11532	12/04/71 - 12/04/71
D-15026	C-11533	7/20/72 - 7/20/72
D-15027	C-11534	12/15/71 - 12/15/71
D-15028	C-11535	12/02/71 - 12/02/71
D-15029	C-11536	12/03/71 - 12/03/71
D-15030	C-11537	12/09/71 - 12/09/71
D-15031	C-11538	12/16/71 - 12/16/71
D-15032	C-11539	12/17/71 - 12/17/71
D-15033	C-11540	3/09/72 - 3/09/72
D-15034	C-11541	1/21/72 - 1/21/72
D-15035	C-11542	11/20/71 - 11/20/71
D-15036	C-11543	12/10/71 - 12/10/71
D-15037	C-11544	6/03/72 - 6/03/72
D-15038	C-11545	2/17/72 - 2/17/72
D-15039	C-11546	8/12/72 - 8/12/72
D-15040	C-11547	10/25/71 - 10/25/71
D-15041	C-11548	12/12/71 - 12/12/71

D#	C#	TIME SPAN
D-18286	C-14514	10/03/71 - 10/03/71
D-18287	C-14515	10/01/71 - 10/01/71
D-18288	C-14516	9/29/71 - 9/29/71
D-18289	C-14517	9/28/71 - 9/28/71
D-18290	C-14518	9/30/71 - 9/30/71
D-18291	C-14519	10/03/71 - 10/03/71
D-18292	C-14520	10/05/71 - 10/05/71
D-18293	C-14521	10/07/71 - 10/07/71
D-18294	C-14522	10/18/71 - 10/18/71
D-18295	C-14523	1/31/72 - 1/31/72
D-18296	C-14524	1/28/72 - 1/28/72
D-18297	C-14525	1/27/72 - 1/27/72
D-18298	C-14526	1/31/72 - 1/31/72
D-18299	C-14527	2/01/72 - 2/01/72
D-18300	C-14528	2/09/72 - 2/10/72
D-18301	C-14529	5/28/72 - 5/28/72
D-18302	C-14530	1/26/72 - 1/26/72
D-18303	C-14531	1/26/72 - 1/26/72
D-18304	C-14532	1/11/72 - 1/11/72
D-18305	C-14533	1/14/72 - 1/14/72
D-18306	C-14534	1/19/72 - 1/19/72
D-18534	C-14669	2/11/72 - 2/11/72
D-18535	C-14670	5/16/72 - 5/16/72
D-18536	C-14671	2/15/72 - 2/15/72
D-18537	C-14672	2/12/72 - 2/12/72
D-18538	C-14673	2/04/72 - 2/04/72
D-18539	C-14674	2/05/72 - 2/05/72
D-18540	C-14675	2/07/72 - 2/07/72
D-18541	C-14676	5/13/72 - 5/13/72

D#	C#	TIME SPAN
D-18542	C-14677	3/08/72 - 3/08/72
D-18543	C-14678	1/25/72 - 1/25/72
D-18544	C-14679	1/25/72 - 1/25/72
D-18545	C-14680	10/04/71 - 10/04/71
D-18546	C-14681	9/07/71 - 9/07/71
D-18547	C-14682	10/14/71 - 10/14/71
D-18548	C-14683	9/05/71 - 9/05/71
D-18549	C-14684	8/28/71 - 8/28/71
D-18550	C-14685	8/29/71 - 8/29/71
D-18551	C-14686	8/30/71 - 8/30/71
D-18552	C-14687	8/21/71 - 8/21/71
D-18553	C-14688	11/08/71 - 11/08/71
D-18554	C-14689	10/10/71 - 10/10/71
D-18555	C-14690	10/20/71 - 10/20/71
D-18556	C-14691	8/31/71 - 8/31/71
D-18557	C-14692	11/04/71 - 11/04/71
D-18558	C-14693	11/17/71 - 11/17/71
D-18559	C-14694	11/11/71 - 11/11/71
D-18560	C-14695	2/11/72 - 2/11/72
D-18561	C-14696	1/23/72 - 1/23/72
D-18562	C-14697	1/22/72 - 1/22/72
D-18563	C-14698	1/25/72 - 1/25/72
D-18564	C-14699	4/11/72 - 4/11/72
D-18565	C-14700	4/15/72 - 4/15/72
D-18566	C-14701	4/05/72 - 4/05/72
D-18567	C-14702	4/08/72 - 4/08/72
D-18568	C-14703	4/26/72 - 4/26/72
D-18620	C-14714	4/29/72 - 4/29/72
D-18621	C-14715	8/24/71 - 8/27/71

D#	C#	TIME SPAN
D-18622	C-14716	10/28/71 - 10/28/71
D-18623	C-14717	9/09/71 - 9/09/71
D-18624	C-14718	10/30/71 - 10/30/71
D-18625	C-14719	8/25/71 - 8/25/71
D-18626	C-14720	9/01/71 - 9/01/71
D-18627	C-14721	8/23/71 - 8/23/71
D-18628	C-14722	9/16/71 - 9/16/71
D-18629	C-14723	11/10/71 - 11/10/71
D-18630	C-14724	11/11/71 - 11/11/71
D-18631	C-14725	11/10/71 - 11/10/71
D-18632	C-14726	11/12/71 - 11/16/71
D-18633	C-14727	11/01/71 - 11/01/71
D-18634	C-14728	2/09/72 - 2/09/72
D-18635	C-14729	12/31/71 - 12/31/71
D-18636	C-14730	7/11/72 - 7/11/72
D-18637	C-14731	7/18/72 - 7/18/72
D-18638	C-14732	7/08/72 - 7/08/72
D-18639	C-14733	6/20/72 - 6/20/72
D-18640	C-14734	1/18/72 - 1/18/72
D-18641	C-14735	3/01/72 - 3/01/72
D-18642	C-14736	1/23/72 - 1/23/72
D-18643	C-14737	2/18/72 - 2/19/72
D-18644	C-14738	1/27/72 - 1/27/72
D-18645	C-14739	1/27/72 - 1/27/72
D-18646	C-14740	1/26/72 - 1/26/72
D-18647	C-14741	2/15/72 - 2/15/72
D-18648	C-14742	2/20/72 - 2/20/72
D-18649	C-14743	3/21/72 - 3/21/72
D-18650	C-14744	3/15/72 - 3/15/72

D#	C#	TIME SPAN
D-18651	C-14745	1/15/72 - 1/15/72
D-18652	C-14746	1/16/72 - 1/16/72
D-18653	C-14747	2/07/72 - 2/07/72
D-18654	C-14748	1/12/72 - 1/12/72
D-18655	C-14749	1/13/72 - 1/13/72
D-18656	C-14750	1/20/72 - 1/20/72
D-18657	C-14751	2/11/72 - 2/11/72
D-18658	C-14752	2/07/72 - 2/07/72
D-18659	C-14753	2/06/72 - 2/06/72
D-18660	C-14754	1/03/72 - 1/04/72
D-18661	C-14755	8/22/71 - 8/22/71
D-18662	C-14756	8/18/71 - 8/18/71
D-18663	C-14757	11/09/71 - 11/09/71
D-18664	C-14758	11/07/71 - 11/07/71
D-18665	C-14759	11/06/71 - 11/06/71
D-18666	C-14760	11/05/71 - 11/15/71
D-18667	C-14761	11/08/71 - 11/08/71
D-18668	C-14762	11/09/71 - 11/09/71
D-18669	C-14763	2/05/72 - 2/05/72
D-18670	C-14764	12/24/71 - 12/24/71
D-18903	C-14993	2/10/72 - 2/10/72
D-18904	C-14994	6/14/72 - 6/14/72
D-18905	C-14995	2/10/72 - 2/10/72
D-18906	C-14996	1/25/72 - 1/25/72
D-18907	C-14997	5/20/72 - 5/20/72
D-18908	C-14998	5/31/72 - 5/31/72
D-18909	C-14999	1/27/72 - 1/27/72
D-18910	C-15000	6/10/72 - 6/10/72
D-18911	C-15001	2/03/72 - 2/03/72

D#	C#	TIME SPAN
D-18912	C-15002	1/09/72 - 1/09/72
D-18913	C-15003	3/28/72 - 3/28/72
D-18914	C-15004	1/04/72 - 1/04/72
D-18915	C-15005	2/03/72 - 2/03/72
D-18916	C-15006	2/12/72 - 2/12/72
D-18917	C-15007	5/23/72 - 5/23/72
D-18918	C-15008	2/08/72 - 2/08/72
D-18919	C-15009	4/01/72 - 4/01/72
D-18920	C-15010	5/03/72 - 5/03/72
D-18921	C-15011	2/08/72 - 2/08/72
D-18922	C-15012	6/03/72 - 6/03/72
D-18923	C-15013	5/06/72 - 5/06/72
D-18924	C-15014	4/22/72 - 4/22/72
D-18925	C-15015	6/06/72 - 6/06/72
D-18926	C-15016	11/07/71 - 11/14/71
D-18927	C-15017	9/24/71 - 9/24/71
D-18928	C-15018	9/04/71 - 9/04/71
D-18929	C-15019	10/27/71 - 10/27/71
D-18930	C-15020	11/02/71 - 11/02/71
D-18931	C-15021	9/21/71 - 9/21/71
D-18932	C-15022	9/27/71 - 9/27/71
D-18933	C-15023	10/29/71 - 10/29/71
D-18934	C-15024	9/12/71 - 9/12/71
D-18935	C-15025	9/20/71 - 9/20/71
D-18936	C-15026	9/19/71 - 9/19/71
D-18937	C-15027	9/17/71 - 9/17/71
D-18938	C-15028	9/26/71 - 9/26/71
D-18939	C-15029	9/14/71 - 9/14/71
D-18940	C-15030	2/22/72 - 2/22/72

D#	C#	TIME SPAN
D-18941	C-15031	2/20/72 - 2/20/72
D-18942	C-15032	2/02/72 - 2/03/72
D-18943	C-15033	2/08/72 - 2/08/72
D-18944	C-15034	1/21/72 - 1/21/72
D-18945	C-15035	1/02/72 - 1/02/72
D-18946	C-15036	1/06/72 - 1/06/72
D-18947	C-15037	12/29/71 - 12/29/71
D-18948	C-15038	12/30/71 - 12/30/71
D-18949	C-15039	8/02/72 - 8/02/72
D-18950	C-15040	8/20/71 - 8/20/71
D-18951	C-15041	12/26/71 - 12/26/71
D-18952	C-15042	8/08/72 - 8/08/72
D-18953	C-15043	12/27/71 - 12/27/71
D-18954	C-15044	3/26/72 - 3/26/72
D-18955	C-15045	1/28/72 - 1/28/72
D-18956	C-15046	1/28/72 - 1/28/72
D-18957	C-15047	12/25/71 - 12/25/71
D-18958	C-15048	12/18/71 - 12/18/71
D-18959	C-15049	12/19/71 - 12/19/71
D-18960	C-15050	2/12/72 - 2/12/72
D-19251	C-15230	2/03/72 - 2/04/72
D-19252	C-15231	8/09/71 - 8/10/71
D-19253	C-15232	8/16/71 - 8/16/71
D-19254	C-15233	8/14/71 - 8/14/71
D-19255	C-15234	8/05/72 - 8/05/72
D-19256	C-15235	8/06/72 - 8/06/72
D-19257	C-15236	8/20/71 - 8/20/71
D-19258	C-15237	8/26/71 - 8/26/71
D-19259	C-15238	2/13/72 - 2/13/72

D#	C#	TIME SPAN
D-19260	C-15239	2/13/72 - 2/13/72
D-19261	C-15240	2/22/72 - 2/22/72
D-19262	C-15241	2/17/72 - 2/17/72
D-19263	C-15242	2/17/72 - 2/17/72
D-19264	C-15243	2/20/72 - 2/20/72
D-19265	C-15244	2/16/72 - 2/16/72
D-19266	C-15245	2/28/72 - 2/28/72
D-19267	C-15246	10/22/71 - 10/22/71
D-19268	C-15247	10/23/71 - 10/23/71
D-19269	C-15248	10/25/71 - 10/25/71
D-19270	C-15249	10/26/71 - 10/26/71
D-19271	C-15250	11/03/71 - 11/03/71
D-19272	C-15251	10/21/71 - 10/21/71
D-19273	C-15252	11/19/71 - 11/19/71
D-19274	C-15253	9/15/71 - 9/15/71
D-19225	C-15254	1/08/72 - 1/08/72
D-19276	C-15255	1/05/72 - 1/05/72
D-19277	C-15256	2/01/72 - 2/01/72
D-19278	C-15257	2/14/72 - 2/14/72
D-19279	C-15258	2/16/72 - 2/16/72
D-19280	C-15259	2/23/72 - 2/23/72
D-19281	C-15260	2/13/72 - 2/13/72
D-19479	C-15703	2/12/72 - 2/12/72
D-19480	C-15704	1/07/72 - 1/07/72
D-19481	C-15705	1/10/72 - 1/10/72
D-19482	C-15706	5/10/72 - 5/10/72
D-19483	C-15707	7/22/72 - 7/22/72
D-19484	C-15708	12/17/71 - 12/17/71
D-19485	C-15709	12/22/71 - 12/22/71

D#	C#	TIME SPAN
D-19486	C-15710	12/21/71 - 12/21/71
D-19487	C-15711	12/16/71 - 12/16/71
D-19488	C-15712	1/28/72 - 1/28/72
D-19489	C-15713	1/29/72 - 1/29/72
D-19490	C-15714	1/24/72 - 1/24/72
D-19491	C-15715	3/04/72 - 3/04/72
D-19492	C-15716	1/24/72 - 1/24/72
D-19493	C-15717	1/24/72 - 1/24/72
D-19494	C-15718	2/26/72 - 2/26/72
D-19495	C-15719	2/20/72 - 2/20/72
D-19496	C-15720	3/11/72 - 3/11/72
D-19497	C-15721	1/24/72 - 1/24/72
D-19498	C-15722	2/11/72 - 2/11/72
D-19499	C-15723	8/14/71 - 8/17/71
D-19500	C-15724	8/11/71 - 8/12/71
D-19501	C-15725	8/19/71 - 8/19/71
D-19502	C-15726	8/13/71 - 8/15/71
D-19503	C-15727	9/02/71 - 9/02/71
D-19504	C-15728	9/03/71 - 9/03/71
D-19505	C-15729	10/15/71 - 10/15/71

APOLLO 15 & 16 JSC RAW DOPPLER FREQUENCY DATA
71-063D-03A
72-031D-03A

This dataset is from the Apollo 15 and 16 subsatellites, which were used to measure the lunar gravitational field based on their dynamical motions. A stable frequency of 2115 MHz was transmitted to the subsatellite which multiplied the received signal by 240/221 and transponded it back to Earth. At the Earth receiver, the initial transmitted frequency was multiplied by 240/221 and subtracted, and the resulting cycle count differences were accumulated for data reduction. The resolution is 0.01 Hz, or 0.6 mm/s.

The data were originally created on an IBM 7094 and were stored on odd parity non-FORTRAN, 800 bpi density tapes. These have been migrated to 9 track tapes by NSSDC. The conversion to 9 track tape has resulted in the addition of 2 bits per byte, making the original 6 bits into 8 bits. This must be corrected to put the data back in its original format by removing these 2 bits. The bits are zeroes which are in the 2 most significant bit position in each byte (*i.e.* a byte which was originally 101001 on the 7 track tape is 00101001 on the 9 track tape). After removing the zeroes, the bits should be mapped end to end, most significant bit on the left to match the bitwise format shown on the next page. These tapes contain high speed data only (10 observations per second). Each tape has 89 word records with 10 observation frames per record. Each frame consists of 320 bits (after the 2 extra bits have been removed from each byte) with each successive frame starting 321 bits from the start of the previous frame. The format of each observation frame is the high speed (fixed station) USB format shown on the next page. One seconds worth of data therefore consists of 10 observations at 320 bits/observation or 3200 bits. The total space available is 89 words, 36 bits/word or 3204 bits per record.

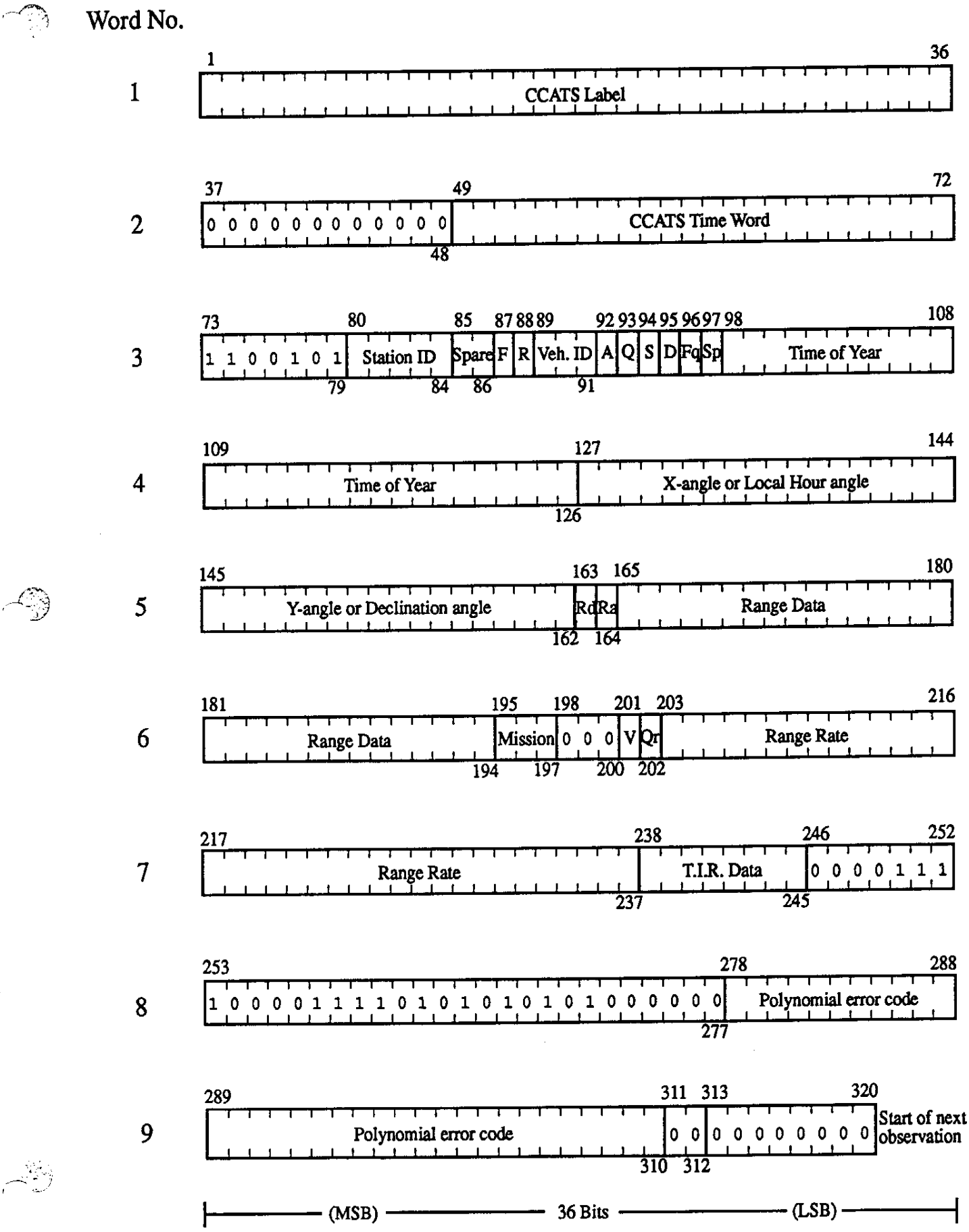
The next page shows the bitwise format of the first observation frame of a given data record.

Notes:

1. Words No. 1 and 2 are the CCATS Label and Time Word, respectively, which are inserted by ALCS by the receiving station (ALCS). These words are included in each observation.

2. Words No. 3-9 contain the 240 bits of high speed tracking data from remote sites. These data are in high speed (fixed station) USB format. Bits 311-320 (Word No. 9) are filler zeros added by ALCS.

3. The next observation begins immediately after bit 320 (word 9).


Word No.
1
1
36
CCATS Label
2
37
49
72
0 0 0 0 0 0 0 0 0 0 0 0
48
CCATS Time Word
3
73
80
85
87 88 89
92 93 94 95 96 97 98
108
1 1 0 0 1 0 1
Station ID
Spare
F
R
Veh. ID
A
Q
S
D
Fq
Sp
Time of Year
79
84
86
91
4
109
127
144
Time of Year
X-angle or Local Hour angle
126
5
145
163
165
180
Y-angle or Declination angle
Rd
Ra
Range Data
162
164
6
181
195
198
201
203
216
Range Data
Mission
0 0 0
V
Qr
Range Rate
194
197
200
202
7
217
238
246
252
Range Rate
T.I.R. Data
0 0 0 0 1 1 1
237
245
8
253
278
288
1 0 0 0 0 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0
Polynomial error code
277
9
289
311
313
320
Polynomial error code
0 0
0 0 0 0 0 0 0 0
Start of next observation
310
312
(MSB)
36 Bits
(LSB)

NOTES:

1. Bits 73-79 are fixed start of frame bits.

2. Bits 80-84 are station ID bits.

Station No.	USB Station	USB Station ID Code 80	81	82	83	84
01	MIL	0	0	0	0	1
02	BDA	0	0	0	1	0
08	CRO	0	1	0	0	0
09	HAW	0	1	0	0	1
10	GYM	0	1	0	1	0
11	TEX	0	1	0	1	1
12	GWM	0	1	1	0	0
13	GDS	0	1	1	0	1
14	ACN	0	1	1	1	0
15	HSK	0	1	1	1	1
16	ETC (GSFC)	1	0	0	0	0
17	MAD	1	0	0	0	1
18	CYI	1	0	0	1	0
24	PIR (MSFN Wing)	1	1	0	0	0
25	RID (MSFN Wing)	1	1	0	0	1
26	MBE (MSFN Wing)	1	1	0	1	0

3. Bit 85 - Spare (May be a "1" or a "0")

4. Bit 86 - Spare (May be a '1' or a '0'.)

5. Bit 87 - F- Frame Rate: 1 = High Rate (10, 5, or 2.5 samples/sec)
   0 = Low Rate (1 sample/sec or manual)

6. Bit 88 - R- Real/Test Data: 1 = Real Data
   0 = Test Data

7. Bits 89, 90, 91 - Vehicle ID

   USB Vehicle ID's are assigned on a mission by mission basis. Mission appendices to this document will reflect vehicle ID's assigned for each mission.

8. Bit 92 - A- Angle Tracking Mode: 1 = Auto Track or Test Auto Track
0 = Other

This bit is an automatic indication of the tracking mode of the servo system, i.e., auto track, program track, manual, etc. The USB system must be operating in the auto track mode for valid angle data.

9. Bit 93 - Q- Time and X-Y Angle Data Quality: 1 = Data Good
0 = Data Bad

This manually set bit allows the remote site operator to make a subjective evaluation of his indications and to tag the data accordingly.

10. Bit 94 -S- '0' = USB System 1
'1' = USB System 2

11. Bit 95 - D- Doppler Modes

1 = Two Way Doppler (XMIT Drive ON).
0 = Three-way Non-coherent Doppler (XMIT Drive Off).

12. Bit 96 -Fq- Frequency Standard ID: 1 = Prime Oscillator
0 = Backup Oscillator

13. Bit 97 - Sp- SPARE (MAY BE a '1' or a '0')

14. Bits 98-126 - Time Data - Binary count of tenths-of-seconds equivalent of the day of year and time of day, referenced to Midnight December 31, GMT, of each year, (i.e., at 00 hours, 00 minutes, 00 seconds and one tenth of a second on January 1 a.m., the count would be equal to one day plus one tenth of a second.)
Bit 98 (MSB) = 26843545.6 sec
Bit 126 (LSB) = 0.1 sec

15. Bits 127-144 - <u>X Angle Data:</u>

The MSB (bit 127) of the X-angle data is a sign designation: 1 = +,0 = -
The LSB (bit 144) is 0.0006866455078 degrees.

<u>Local Hour Angle</u>

MSFN Wings (PIR, RID, NBE) Station Local Hour Angle limits do not exceed: (degrees) 000.000-105.000 and 255.000-359.998
Bit 144 = LSB = 0.002 deg. Bit 127 = MSB = 262.144 deg.

16. Bits 145-162 - Y Angle Data:

The MSB (bit 145) of the Y-angle data is a sign designation: 1 = +,0 = -
The LSB (bit 162) is 0.0006866455078 degrees.

Declination Angle

MSFN Wings (PIR, RID, NBE) Station Declination Angle limits do not exceed: (degrees) 000.000-090.000 and 270.000-359.998
Bit 162 = LSB = 0.002 deg. Bit 145 = MSB = 262.144 deg.

17. Bit 163 -Rd- Range Data Quality: 1 = Good Data
0 = Bad Data
When the ranging procedure is complete, this bit is automatically set "good."

18. Bit 164 -Ra- Range Acquisition Frame: 1 = Range Acquisition (or reacquisition) occurred between the start of the previous (high speed) data frame and the start of the present data frame; 0 = Range acquisition did not occur in the time period.

19. Bits 165-194 - Range Data:

Bit 165 is the MSB of the range field
Bit 194 = LSB of range = 1 Range Unit = 1.147960 yards.

20. Bits 195-197 - Mission ID: Bits 195, 196, and 197 will be used as a Mission ID and the Mission Appendices to this document will reflect Mission ID's assigned for each mission.

21. Bits 198-200 - are spares (zeros).

22. Bit 201 -V- Exciter VCO Indicator Bit: "1" = VCO locked to synthesizer.
"0" = VCO not locked to synthesizer
This bit is an automatic indication and must be "1" for both range and range rate data to be valid.

23. Bit 202 -Qr- Range Rate Data Quality: "1" = Good Data
"0" = Bad Data
When the receiver that is connected to the doppler extractor has achieved lock, this bit is automatically set "good".

24. Bits 203-237 - Range Rate Data:

These bits contain binary count of non-destruct Doppler Cycles. LSB = 1 cycle/bit

25. Bits 238-245 - Time Increment Resolver Data: Measure of elapsed time from the time tag to the next counted doppler crossing. LSB (Bit 245 equal 10 nanosec).

26. Bits 246-277 - Contain a synchronizing code.

27. Bits 278-310 - Polynomial Error Code

28. Bits 311-312 - Comm. Sync. Signal

29. A Dual USB site has the capability to support two spacecraft when both vehicles are within the beam width of the single antenna. There are two USB receiver/exciter/ranging (RER) systems at a Dual site. The Tracking Data Processor (TDP), which formats the tracking data, has three modes of operation. In the "Dual" mode of operation the TDP accepts frequency, range, range rate and indicator data from both USB (RER) systems. When operating in one of the other two modes, the TDP accepts data from either USB (RER) system one or two. Independent of the mode of operation, the angle data will always be for the prime vehicle as specified in the NOD. When operating in the "Dual" mode, the TDP will time multiplex the data; i.e., one frame of data from USB (RER) system one, one frame from USB (RER) system two, etc. The effective data rate is therefore one-half of the selected rate. The following bits within the Fixed USB High Speed Format are directly associated with each USB (RER) system and may change for each frame of data output by the TDP:

Bit 85-Doppler Count
Bit 86-Doppler Mode
Bits 89-91-Vehicle ID
Bits 94-95-Doppler Mode
Bit 97-Range or Frequency indicator
Bit 163-Range Data Quality
Bit 164-Range Acquisition Frame
Bits 165-194-Range or Frequency Data
Bit 202-Range Rate Data Quality
Bits 203-237-Range Rate Data
Bits 238-245 T.I.R. Data

APOLLO 15 & 16
JSC RAW DOPPLER FREQ. DATA
71-063D-03A
72-031D-03A

April 23, 1974

In order to calculate the time spans on the tapes in these data sets, the following must be done:

1) The 'Time of Year', found in bits 26-36 of the 3rd word and bits 1-18 of the 4th word of each logical record, must be broken down into bits. Example:

WORD 3	WORD 4
624216411344	053342235722
110010100010001110100001001011100100	000101011011100010 010011101111010010

2) Change these 29 bits from binary to octal:

$$01011100100000101011011100010 = 1344053342_8$$

3) Convert this octal number to decimal:

$$1344053342_8 = 194008802_{10}$$

4) This decimal number is then divided by 864,000 (number of tenths of seconds

in a day):

$$864000\overline{)194008802.0} = \quad 224.55$$

DAY 224 HR 13

Even though the Julian day can be derived, there is nothing on the tapes to indicate the year of the data.

year can be handled from tape #.

REPACKED OCTAL DUMP OF APOLLO1

FILE 1 RECORD 1 540 BYTES

131.8

(0)	552672120050	000000000000	625115120662	372002423017	037750000000	000000000031	753104734607	417252401071
(48)	723132600013	255642601200	000000000014	522322415447	640070460360	777120000000	000000000640	053676724170
(96)	365250033274	005503000267	775060024000	000000000312	606564331175	005727432606	602000000000	000040024115
(144)	762014103607	525200537333	331620005577	721500500000	000000006254	153506623720	146570654154	050000000000
(192)	001000502633	454374074172	524017270117	576400133756	434012000000	000000145263	272154476403	447125603346
(240)	400020000000	020006605104	247241703652	500274700232	760002677350	740240000000	000003125465	643311750075
(288)	162534067140	000000000000	400154261537	536036075252	001054346626	400055267220	005000000000	000062511512
(336)	066237200442	301703774203	000000000000	003203224735	000741725240	253143761764	001325564420	120000000000
(384)	001452232241	544764013045	036077700000	000000000000	064143543256	017036525006	165436427500	026777511002
(432)	400000000000	031260656433	117500672743	260660240000	000000004002	414535312560	360752520134	211123524000
(480)	557772230050	000000000000	625415350662	372016657065	415405000000	000000100050	342270447007	417252403102
(528)	475217200000	000000000000						

REPACKED OCTAL DUMP OF APOLLO1

FILE 1 RECORD 13229 540 BYTES

131

(0)	557672020050	000000000000	625315350662	520466311547	407725000000	000000104142	374214424607	417252403347
(48)	317132100013	375640601200	000000000014	526327215452	411566233170	176560000000	000002103050	514313234170
(96)	365250063277	611267000267	735020024000	000000000312	546564331250	234144663603	754400000000	000042061226
(144)	506151003607	525200200046	761440005576	720500500000	000000006253	153506625204	713115474077	340000000000
(192)	001041425056	141502074172	524032271303	424000133756	414012000000	000000145263	272154524116	462331701767
(240)	200000000000	021030527442	667101703652	500077603375	400002677350	340240000000	000003125465	643312502355
(288)	446636037570	000000000000	420612733052	637036075252	016133013441	400055767210	005000000000	000062531535
(336)	066252047431	154740773700	000000000010	414261721172	340741725240	042661631070	001337564220	120000000000
(384)	001452632721	545241172623	317017700000	000000000210	305517422324	417036525005	601272754700	026773505002
(432)	400000000000	031254656433	125023714466	120376040000	000000004206	134010375550	360752520036	252171302000
(480)	557672130050	000000000000	625315350662	520477311543	407742000000	000000104142	730606447407	417252403243
(528)	436776340000	000000000000						

REPACKED OCTAL DUMP OF APOLLO1

FILE 2 RECORD 1 540 BYTES

132.5

(0)	553772120050	000000000000	624215110664	521124571725	032005000000	000000100124
(48)	507713640013	273642601200	000000000014	504322215512	422533676500	

(96)	365250060232	101334000266	275060024000	000000000313	106454332250	451407734422	222000000000	000000040104
(144)	274450503607	525201063537	677300005545	721500500000	000000006262	151306645211	240176720444	440000000000
(192)	000001002375	361430074172	524027342627	753000132736	434012000000	000000145043	222155124225	536364606401
(240)	000020000000	020025157372	525401703652	500115646507	050002656750	740240000000	000003121064	443322504536
(288)	747510150024	000000000000	400523527616	171036075252	011366543513	400055457220	005000000000	000062621513
(336)	066452112501	767304444500	000000000000	010026655363	560741725240	031514064260	001331364420	120000000000
(384)	001454432261	551242254037	566111112000	000000000000	200633511104	417036525005	472334023300	026567511002
(432)	400000000000	031210644433	225045427475	101500240000	000000004005	236675565360	360752520012	333070122000
(480)	553572230050	000000000000	624215110664	521131571721	032005000000	000000100125	005724147407	417252401263
(528)	660132600000	000000000000						

REPACKED OCTAL DUMP OF APOLLO1

FILE 2 RECORD 8548 540 BYTES

132.5

(0)	553572060050	000000000000	624215110664	644576514057	047773000000	000000104113	311201742007	417252402627
(48)	755554140013	273641601220	000000000014	504322215515	113772301361	177660000000	000002102267	042446564170
(96)	365250020176	730430000265	675040024000	000000000312	106444332322	300245027423	775400000000	000042045575
(144)	421354603607	525200365502	637460005535	721100500000	000000006242	151106646446	015140560477	730000000000
(192)	001041134237	633444074172	524010416670	536400132736	424012000000	000000145043	222155151140	523013211777
(240)	000020000000	021022713160	766541703652	500163343414	210002656750	540240000000	000003121064	443323223016
(288)	460264237760	000000000000	420456427122	115036075252	012357460571	000055357214	005000000000	000062421511
(336)	066464460451	405504777420	000000000010	411353654502	320741725240	341241136774	001327364320	120000000000
(384)	001450432221	551511413230	132117772000	000000000210	227357153124	417036525005	312457323300	026567507002
(432)	400000000000	031210644433	232230324602	602377640000	000000004204	571020302450	360752520145	556461412000
(480)	553572170050	000000000000	624215110664	644607514052	047775000000	000000104113	651326530207	417252402037
(528)	320310700000	000000000000						

REPACKED OCTAL DUMP OF APOLLO1

FILE 3 RECORD 1 540 BYTES

131.9

(0)	554072120050	000000000000	625015350663	015506575555	532365000000	000000000001	003276353007	417252403742
(48)	324726440013	301642601200	000000000014	520327215460	332173733272	647520000000	000000000020	643275214170
(96)	365250053657	145562000266	035060024000	000000000312	406564331406	644276665655	172400000000	000000000430
(144)	443561303607	525201147045	705100005540	721500500000	000000006250	153506630155	115755535323	650000000000
(192)	000020011101	206424074172	524030434057	411000133016	434012000000	000000145203	272154603322	537332726475
(240)	200000000000	000000227637	207001703652	500242304322	710002660350	740240000000	000003124065	643314066456
(288)	766656551730	000000000000	000004731462	602036075252	006553622334	600055407220	005000000000	000062501535
(336)	066301551457	555353236600	000000000000	000121546322	700741725240	053017012260	001330164420	120000000000
(384)	001452032721	546033233373	327264754000	000000000000	002511557257	017036525005	716165751300	026603511002
(432)	400000000000	031240656433	140664727666	525517300000	000000000000	053606075560	360752520160	155516432000
(480)	554072230050	000000000000	625015350663	015517575551	532366000000	000000000001	323444333607	417252400651
(528)	575[illegible]2040000	000000000020						

Dupe of T-3303 D-14995 6/26/72 - 6/26/72

FILE 0001 REC 0001 CH 0540

0001	552675000050	000000000000	625116751117	635673162343	170302000000	000000000000	110473653407	417252401030
0049	771306040013	255720201200	000000000014	522357222374	735703447063	606040000000	000000000003	014434654170
0097	365250000345	203074000265	336410024000	000000000312	447364447716	736471161474	140400000000	000000000074
0145	360113203607	525200415776	564560005526	750300500000	000000006251	167511176356	761623501703	010000000000
0193	000000002210	413432074172	524015727424	411000133237	210012000000	000000145363	536223747356	607527715253
0241	200000000000	000000022264	330741703652	500651200303	730002664764	240240000000	000003127472	744477167360
0289	172576325260	000000000000	000000610212	140036075252	000473231753	600055267506	005000000000	000062511675
0337	111763567716	236117030100	000000000000	000025114055	100741725240	343733422334	001325572160	120000000000
0385	001452235722	237473600344	752360602000	000000000000	000602451470	417036525007	461564571200	026647644002
0433	400000000000	031274727444	771673641726	023252600000	000000000000	007531612060	360752520163	471550764000
0481	555175110050	000000000000	625716571117	635676036540	465254000000	000000000000	223461732407	417252402641
0529	646025740000	000000000000						

FILE 0001 REC 0002 CH 0540

0001	552675120050	000000000000	625116751117	635701162370	170301000000	000000000000	331262231207	417252403265
0049	170106340013	255722601200	000000000014	522357222374	736043447623	606020000000	000000000007	426070630170
0097	365250030334	326146000266	476460024000	000000000312	747274447716	737417260232	526000000000	000000000126
0145	155254503607	525200640635	117420005551	751500500000	000000006257	165711176357	000365404652	540000000000
0193	000000003052	035344074172	524026133450	406400132557	234012000000	000000145223	572223747360	634476436060
0241	200000000000	000000102263	311541703652	500027357653	110002653364	740240000000	000003124473	644477167420
0289	711744741404	000000000000	000002205423	616036075252	004116424362	000055517520	005000000000	000062571657
0337	111763570103	654046525300	000000000000	000033605433	040741725240	145406670544	001332372420	120000000000
0385	001453635362	237473604075	301152526000	000000000000	000755641057	417036525000	300017524100	026533651002
0433	400000000000	031244736444	771674247117	407414040000	000000000000	023452471620	360752520014	340706526000
0481	552675230050	000000000000	625116751117	635706162370	170301000000	000000000000	521176430407	417252403534
0529	344602500000	000000000000						

FILE 0001 REC 0003 CH 0540

0001	555175240050	000000000000	625716571117	635703036540	465252000000	000000000000	417550344407	417252400662
0049	031554700013	323725201200	000000000014	536353622374	736100753011	525240000000	000000000011	207250764170
0097	365250067506	706611000265	336530024000	000000000312	447364447716	743471175074	137000000000	000000000264
0145	446721703607	525201142551	554620005526	752700500000	000000006251	167511176357	101623721702	750000000000
0193	000000006010	215340074172	524004476040	651000133237	260012000000	000000145363	536223747361	207530115252
0241	200000000000	000000120226	367101703652	500152713460	320002664765	440240000000	000003127472	744477167430
0289	172602325244	000000000000	000002547346	174036075252	016344320754	400055267532	005000000000	000062511675
0337	111763571116	237317027200	000000000000	000063071412	320741725240	215256706454	001325572660	120000000000
0385	001452235722	237473624345	000360564000	000000000000	001541371466	417036525004	771573526400	026647656002
0433	400000000000	031274727444	771674341726	023252400000	000000000000	027120322060	360752520134	746131056000
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FILE 0001 REC 0004 CH 0540

0001	552675360050	000000000000	625116751117	635713162407	170272000000	000000000000	710471736007	417252400216
0049	416166540013	255727601200	000000000014	522357222374	736303450343	605640000000	000000000017	007632460170
0097	365250055553	330437000266	476600024000	000000000312	747274447716	744417260232	522400000000	000000000321
0145	644313203607	525200706344	440640005551	754100500000	000000006257	165711176357	120365404652	440000000000
0193	000000006740	567356074172	524001051507	560400132557	304012000000	000000145223	572223747363	234505036056
0241	400000000000	000000176055	244601703652	500254327102	410002653366	140240000000	000003124473	644477167470
0289	712150741350	000000000000	000004100605	172036075252	014435702331	400055517544	005000000000	000062571657
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0433	400000000000	031244736444	771674747121	547413500000	000000000000	042401116270	360752520050	313135262000
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FILE 0001 REC 0005 CH 0540

0001	555175500050	000000000000	625716571117	635715036537	465241000000	000000000001	005022135607	417252402546
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0097	365250024711	220170000265	336650024000	000000000312	447364447716	750471215074	135400000000	000000000453
0145	701620403607	525200626707	171640005526	755300500000	000000006251	167511176357	221624261702	720000000000
0193	000000011575	031240074172	524026035565	534400133237	330012000000	000000145363	536223747363	607527715250
0241	000000000000	000000215252	447501703652	500645202157	720002664766	640240000000	000003127472	744477167500
0289	172576325200	000000000000	000004465407	650036075252	001320500103	600055267556	005000000000	000062511675
0337	111763572316	242517027500	000000000000	000120742655	320741725240	144667352074	001325573360	120000000000
0385	001452235722	237473650345	040360574000	000000000000	002476772300	417036525007	360552206500	026647670002
0433	400000000000	031274727444	771675041725	763252000000	000000000000	046252632440	360752520072	702012234000