#167

ALOUETTE 2, ISIS 1 + 2

ARC INT. PROFILES PACKED TAPE

65-098A-01J

69-009A-01C

71-024A-01C

2 tapes

ALOUETTE 2

ISIS 1

ISIS 2

ARC N(H) INT PROFILE

65-098A-01J

69-009A-01C

71-024A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGIANLLY IT CONTAINED TWO 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND THEY WERE RESTORED ON THE MODCOMP CLASSIC II COMPUTER. THE DR AND DS TAPES ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN	
DR003598	DS003598	D007048	1	11/29/65 - 03/11/70	ALOUETTE 2
		D018183	2	06/01/66 - 02/15/72	ALOUETTE 2
				02/03/69 - 04/07/72	ISIS 1
				04/09/71 - 10/22/71	ISIS 2

SPACECRAFT ID NUMBERS:		
	ALOUETTE 2	20
	ISIS 1	30-39
	ISIS 2	40-49

REQ. AGENT	RAND NO.	ACQ. AGENT
CMT	RC3243	LLD

ARC N(H) INT. PROFILE
SWEEP FREQUENCY IONOSONDE 'J'

65-098A-01J ALOUETTE 2

69-009A-01C ISIS 1

71-024A-01C ISIS 2

This data set consists of 2 tapes written in binary in odd parity. Tapes are 7 track with a density of 800 bits per inch (BPI). Originals and duplicates were made on the IBM 360 computer. The tapes are 7-track IBM 360/67 OS System generated blocked tapes in Binary with odd parity. Density is 800 BPI and RECFM is variable-length. TRTCH=C, LRECL=284, BLKSIZE=288.

'D' and 'C' numbers and time spans follow:

D#	C#	SATELLITE	TIME SPAN
D-07048	C-05727	ALOUETTE 2	11/29/65 - 03/11/70
D-18183	C-14668	ALOUETTE 2	06/01/66 - 02/15/72
		ISIS 1	02/03/69 - 04/07/72
		ISIS 2	04/09/71 - 10/22/71

Spacecraft ID numbers:		
	ALOUETTE 2	20
	ISIS 1	30-39
	ISIS 2	40-49

FIELD ALIGN IONOGRAM (3 RECORDS):

RECORD 1:

WORD (4 BYTER)	PRINT FORMAT	DESCRIPTION
1	I2	YEAR
2	I3	DAY OF YEAR
3	I2	MONTH
4	I2	DAY OF MONTH
5	I2	UNIVERSAL HOURS
6	I2	UNIVERSAL MINUTES
7	I2	UNIVERSAL SECONDS
8-10		DUMMY
11	I2	STATION NUMBER
12	I2	SATELLITE NUMBER
13-15		DUMMY
16	F10.4	SATELLITE ALTITUDE
17-19		DUMMY
20	F10.4	DIP ANGLE
21	A4	KP INDEX
22	F10.4	SOLAR ZENITH ANGLE (CHI)
23	F10.4	SOLAR FLUX
24	I2	IONOGRAM QUALITY FACTOR
25	I2	ANALYSIS QUALITY FACTOR
26-30		DUMMY
31	F10.4	ELECTRON DENSITY AT SATELLITE
32	F10.4	N(H) AT 3500 KM
33	F10.4	N(H) AT 3400 KM
•	•	•
•	•	•
•	•	•
64	F10.4	N(H) AT 300 KM
65	F10.4	N(H) AT 200 KM
66-67		DUMMY
68		FIELD ALIGN CODE (FAFA)
69		PACKED YEAR AND DAY OF YEAR FOR SORTING
70		PACKED UNIVERSAL TIME(HR,MIN, SEC) AND CODE=1 FOR SORTING

(ENC. 2)

FIELD ALIGN IONOGRAM (3 RECORDS): CONT.

RECORD 2:

RECORD (4 BYTES)	PRINT FORMAT	DESCRIPTION
1	F12.2	SATELLITE LATITUDE AT 3500 KM
2	F12.2	SATELLITE LATITUDE AT 3400 KM
•	•	•
•	•	•
•	•	•
33	F12.2	SATELLITE LATITUDE AT 300 KM
34	F12.2	SATELLITE LATITUDE AT 200 KM
35	F12.2	SATELLITE LONGITUDE AT 3500 KM
36	F12.2	SATELLITE LONGITUDE AT 3400 KM
•	•	•
•	•	•
•	•	•
67	F12.2	SATELLITE LONGITUDE AT 300 KM
68	F12.2	SATELLITE LONGITUDE AT 200 KM
69		PACKED YEAR AND DAY OF YEAR FOR SORTING
70		PACKED UNIVERSAL TIME (HR,MIN, SEC) AND CODE=2 FOR SORTING

RECORD 3:

RECORD (4 BYTES)	PRINT FORMAT	DESCRIPTION
1	F12.2	LAMDA DIP AT 3500 KM
2	F12.2	LAMDA DIP AT 3400 KM
•	•	•
•	•	•
•	•	•
33	F12.2	LAMDA DIP AT 300 KM
34	F12.2	LAMDA DIP AT 200 KM
35	I12	LOCAL TIME AT 3500 KM
36	I12	LOCAL TIME AT 3400 KM
•	•	•
•	•	•
67	I12	LOCAL TIME AT 300 KM
68	I12	LOCAL TIME AT 200 KM
69		PACKED YEAR AND DAY OF YEAR FOR SORTING
70		PACKED UNIVERSAL TIME (HR, MIN, SEC) AND CODE=3 FOR SORTING

(ENC. 3)

VERTICAL IONOGRAM (1 RECORD):

RECORD (4 BYTES)	PRINT FORMAT	DESCRIPTION
1	I4	YEAR
2	I4	DAY OF YEAR
3	I4	MONTH
4	I4	DAY OF MONTH
5	I4	UNIVERSAL HOURS
6	I4	UNIVERSAL MINUTES
7	I4	UNIVERSAL SECONDS
8	I4	LOCAL HOURS
9	I4	LOCAL MINUTES
10	I4	LOCAL SECONDS
11	I4	STATION NUMBER
12	I4	SATELLITE NUMBER
13-15		DUMMY
16	F12.6	SATELLITE ALTITUDE
17	F12.6	SATELLITE LONGITUDE
18	F12.6	SATELLITE LATITUDE
19	F12.6	DIP LATITUDE
20	F12.6	DIP ANGLE
21	A4	KP INDEX
22	F12.6	SOLAR ZENITH ANGLE (CHI)
23	F12.6	SOLAR FLUX INDEX
24	I4	IONOGRAM QUALITY FACTOR
25	I4	ANALYSIS QUALITY FACTOR
26-30		DUMMY
31	F12.9	ELECTRON DENSITY AT SATELLITE
32	F12.9	N(H) AT 3500 KM
33	F12.9	N(H) AT 3400 KM
•	•	•
•	•	•
•	•	•
64	F12.9	N(H) AT 300 KM
65	F12.9	N(H) AT 200 KM
66-68		DUMMY
69		PACKED YEAR AND DAY OF YEAR FOR SORTING
70		PACKED UNIVERSAL TIME (HR,MIN, SEC) AND CODE=0 FOR SORTING

(ENC. 1)

ARC Int Profiles Packed Tape
D-18183 C-~~[illegible]~~ C-14668

Int order by Date Start-June 7, 1966
Stop June 8, 1972

Alouette 2
ISIS 1 & 2


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01200000011C00004040404040404040404040404040404040404040404040404040404040404040404040404040404040   REC     1. LENGTH   288
404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040
404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040
404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040
404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040404040
404040404040404040404040404040404040404040404040404040404040404040404040404040E2C3D9
0120000001 1C0000000000420000009800000006000000010000000600000003000000 0D000000160000000800000390000   REC     2. LENGTH   288
002E000000140000000000000000000000000439C277EC275D160423D8D7B42455A1F424F54694040F3F0425DB1EB4265E666
000000200000000400000000000000000000000000000000000000003F481F020000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003E5241C43F5E02603F6B25AA3F7976383F889A003E989B31
3FABB40F3FC3A7903FE0F4B8401048A740131A9F4016CEAD401BCECE4022B11E402B6E5D4035954A4043865740585A5A407A
6BE7000000000000000000000000000000000000000000000000000000000000000001026800093 3FA
01200000011C00000000004200000098000000060000000100000006000000030000000290000001600000000F000000170000   REC     3. LENGTH   288
002E000000140000000000000000000000000439DAEE0C27513E9423C7CEC42447C12424ED9734040F3E0425ED5F74265E666
0000002100000005000000000000000000000000000000000000003F5C72D800000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003E5E23063F65D8733F6E30E83F7792DB3F8261BE3F8EFDE23F9DF181
3FB00C293FC5729A3FDE33FA3FFBF96740120AEB4014F2F44018BD03401DA9584024495B402E0957403DB39840551BE44078
C45540B07AEB4110DD8100000000000000000000000000000000000000000000001026800093512
01200000011C00000000004200000098000000060000000100000006000000040000000E0000001600000013000000070000   REC     4. LENGTH   288
002E000000140000000000000000000000000439F3B2EC27447B24 23B3BA442436EDE424E42F44040F3F042602C6D4265E666
000000200000000400000000000000000000000000000000000000003F4606F900000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003F4870FE3F4DC6B13F5380F93F59C81F3F62BC2A3F6EE6EA3F7D623B
3F8EDC793FA4529A3FBF6FF03FE303AF40113120401536374O1AB0D140224E68402CC94A0000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001026800093 7EC
01200000011C000000000042000000980000000600000001000000060000000400000002F000000160000000160000000230000   REC     5. LENGTH   288
002E0000001400000000000000000000000000043A0B158C2738DAA4239FA8742425A81424DA6B84040F3F042618102426 5E666
000000200000000400000000000000000000000000000000000000003F285438000000000000000000000000000000000000000
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3F724B5B3F88CF463FA6620A3FCB2A063FF814B940132857000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000010263000093936
01200000011C0000000000420000009800000006000000010000000600000005000000013000000016000000019000000290000   REC     (6). LENGTH   288
002E00000014000000000000000000000000000043A21E1BC272E8AA4238C366424148524 24D09E34040F3F04262C9944265E666
000000200000000500000000000000000000000000000000000000003F3CE4B6000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003F3EB4903F42D7F03F4624723F49ED573F4EB3B23F55763E3F60E3D2
3F6F1F693F802FDC3F9518B33FB10201 3FD77B2A4010B35D4014E419401A548F4021876540230 9B14037E38E404AC3420000
00000000000000000000000000000000000000000000000000000000000000000001026800093C06
01200000011C000000000042000000980000000600000001000000060000000500000003400000001600000001C000000290000   REC     7. LENGTH   288
002E0000001400000000000000000000000000043A3819CC2724C80423782F0424027F7424C62DD4040F3F042641ABD4265E666
000000200000000400000000000000000000000000000000000000003F2D05AE000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003F2DB1923F3218143F36E8143F3C35053F4222F63F492BFC3F51B36C3F5C3C8D
3F68CAEF3F77C2AA3F89CBF23FA06A173FBFE5A93FEEB4D6401367754 01972E540214BF5000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001026800093D50
01200000011C00000000004200000098000000060000000100000006000000060000000180000000160000001F000000170000   REC     8. LENGTH   288
002E0000001400000000000000000000000000043A4E62CC271C13D42364CA7423F0B72424BBBD64040F3F0426560134265E666
000000200000000400000000000000000000000000000000000000003F21CF8F0000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003F230DC83F2682D23F2A4F253F2E968B3F33BE573F3A29C43F4286C03F4E4E9B
3F5ECB663F72533B3F894CF73FA46AF93FC6A3EB3FF397D6401307D540185FB6401FCF01402A63C74039CD59000000000000
00000000000000000000000000000000000000000000000000000000000000000000102680009402 0
01200000011C000000000042000000980000000600000001000000060000000700000001D00000001600000002400000 0180000   REC     9. LENGTH   288
002E0000001400000000000000000000000000043A77C55C270C6094233D805423CBD36424A59B64040F3E04267F9604265E666
000000200000000500000000000000000000000000000000000000003EE5AC66000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003EFA60413F116FBF3F13742A3F15D45C3F18ACA43F1C23693F2067FD3F25B048
3F2C5D883F350B5F3F4051FB3F4E8A173F60A4823F785F193F99109B3FC7BF4840107299000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000010263000944 3A
01200000011C000000000042000000980000000600000001000000060000000080000000100000001600000002600000027 0000   REC    10. LENGTH   288
002E0000001400000000000000000000000000043A8B8CEC27057E14232A371423B958E4249A42F4040F3F04269315242 65E666
000000200000000500000000000000000000000000000000000000003F6BA433000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000003E7F54513E96BB8D3EB26F5E3ED3B57E3EFC040D3E12D0B13E168F1C3E1B2DDB
'20F6A03F2846A53F31 9F473F3DB5CC3F4D906F3F62B4B83F7F76683FA7BB1F3FE277B940137F3A401B253D40267C6B0000
000000000000000000000000000000000000000000000000000000000000000000001026800094 70A
01200000011C000000000042000000980000000600000001000000060000000080000000210000001600000002800000 02F0000   REC    11. LENGTH   288
002E0000001400000000000000000000000000043A9EB39C26FF1A242316F7E423A6B384248E9F54040F3F0426A70EC4265E666
000000210000000500000000000000000000000000000000000000003EA5FCB20000000000000000000000000000000000000000
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0000000000000000000000000003EAA72513EC467F43FE25D633F1054BD3F12E4953F15E8413F1976D53F1DACD33F22CDF2
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0000000000000000000000000000000000000000000000000000000000000000000010268000948 4A
0120000001 1C0000000000420000009800000006000000010000000600000000900000000600000016000000 02A000000340000  REC    12, LENGTH   288
002E0000001400000000000000000000000043AB1391C26F8F8542303 29C42393520424824FB4040F3F0426B8925426 5E666
0000002100000000500000000000000000000000000000000000000000000003E5D597A000000000000000000000000000000000000000
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:1A951F3F20857E3E28326B3F3235923E3E567D3E508B703F676BF03F8635B53FB251043EE7545540 15E40E401FCDBD402F
CF9A4049EAAC0000000000000000000000000000000000000000000000000000000000010268000 94B24
0120000001 1C0000000000420000009800000006000000010000000600000000A000000080000001600000002E000000280000  REC    13, LENGTH   288
002E0000001400000000000000000000000043AD4E3DC26FE18D422DC4744236CCAC4246924740 40F3F0426E3BD94265E666
0000002100000000500000000000000000000000000000000000000000000003E5561500000000000000000000000000000000000000
0000000000000000000000000000 3E5A998B3E6248B03E6A9E6A3E74C4FF3E839BE73EA272993ECF09953F100697 3F13AA0E
3F1832E93F1E0D743E25B6FB3E2EE8A13F3DBC903E50EB4B3F6B4D543F8F906F000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000010268000 94F3E
0120000001 1C0000000000420000009A200000006000000080000000500000000000000002D000000150000001300000013000000  REC    14, LENGTH   288
002E0000001400000000000000000000000043B477B9C2735C664236EDCB423F2BA2424BCED64040F050425ECD39425D3333
0000002000000000500000000000000000000000000000000000000000000003F14E5D8000000000000000000000000000000000000000
0000000000000000000000 3F16AB903F18F1863F1B4E343F1E13D13F2169A23F25890A3F2AD63F3F32102D3F3835DA3F46493F
3F53C2DD3F643DB93F78C7E43E92EB313FB4B64E3EE13F284011D57540170 6A7401E25AB40280B1C40362C4840 4B5951406C
D39840A6263F0000000000000000000000000000000000000000000000000000000000010272000 7A2E2
0120000001 1C0000000000420000009A200000006000000080000000500000001000000120000000150000000150000000350000  REC    15, LENGTH   288
002E0000001400000000000000000000000043B534EAC272DBA14235BF84423E16E4424B2A634040F050425FF965425D3333
0000002000000000500000000000000000000000000000000000000000000003F170E7B000000000000000000000000000000000000000
0000000000000000000000 3F1A14D03F1D873A3F216E443F25E2D43F2B12B03F31232B3F3843673F40AECC3F4AB21A3F56C9CD
3F6598243F77E76D3E8E21F23EACCD3E3FD23E3340101AA84013EA254018F2BB401FC0D140292FFD4036536C000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010272000 7A5BC
0120000001 1C0000000000420000009A200000006000000080000000500000001000000320000000150000000180000000D0000  REC    16, LENGTH   288
002E0000001400000000000000000000000043B5E136C27267AA42349A49423D0691424A864E4040F0504261 1BB8425D3333
0000002000000000400000000000000000000000000000000000000000000003F1D0EFB000000000000000000000000000000000000000
0000000000000 3F1D583A3F20578 53F23A52F3F2749373F2B4B6C3F2FDA7C3F35351A3F3B95993F4350F43F4CE9A33F593186
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0000000000000000000000000000000000000000000000000000000000000000000000010272000 7A6FC
0120000001 1C0000000000420000009A200000006000000080000000500000000200000016000000150000001A000000180000  REC    17, LENGTH   288
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3E4000000000000000000000000000000000000000000000000000000000000000000010272000 7A9CC
0120000001 1C0000000000420000009A200000006000000080000000500000000200000036000000150000001C000000210000  REC    18, LENGTH   288
002E0000001400000000000000000000000043B71D49C27196F642324FA1423ADB6F4249305E4040F0504263 5E46425D3333
0000002000000000400000000000000000000000000000000000000000000003F1EBA62000000000000000000000000000000000000000
0000000000000 3F20910C3F238AEB3F26CA683F2A55F33F2E3EB83F32C32B3F3815A33F3E76203F45FD253F4ED39A3F594DFA
3F65E5F13F7561BD3F88DC223FA21D233FC3B1D83FEE2B2B40123D254016A000401CA29C40253C1800000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010272000 7AB0C
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002E0000001400000000000000000000000043B7A811C27135FC4231211942398 86F424878D54040F0504264878A425D3333
0000002000000000500000000000000000000000000000000000000000000003F22B17D000000000000000000000000000000000000000
0000000000000 3F23A387 3F2637673F28FA893F2C10F93F2FAA133F33F2303F3931E23F3FA3643F4735DD3F5034023F58096B
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0120000001 1C0000000000420000009A200000006000000080000000500000000400000015000000240000000080000  REC    20, LENGTH   288
002E0000001400000000000000000000000043B90556C2703BD4422DA78742365 1BD4246401440 40F0504267EDC2425D3333
0000002000000000500000000000000000000000000000000000000000000003F1DE139000000000000000000000000000000000000000
0000000000000 3F1FA5ED3F1FF7293F2156E43F22CC0B3F24704C3F2654ED3F28935F3F2B5AB13F2F17123F35775A3F44C422
3F5601FE3F68D8183F7D77BC3F940BE93FADAEB13FCE5B173FF99CEA401359A24018F2CC4021848 2402E4E5F000000000000
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01200000011C00000000000480000009F00000006000000070000000300000002B00000021000000120000000600000014000 0  REC     1, LENGTH    288
00130000001E00000000000000000000000043DBEC9BC2904E0642506006425 12BA242558F144040F240424 3E69142944CCC
00000000000000070000000000000000000000000000000000000003F8168883F8347253F8DB1723F98EF4C3FA511723FB2
2A063FC04C8D3FCF8E403FE005C63FE1CBBB4010535F4011B7F24013596D40154BCD4017AEE6401AA56C401E14024022086A
40269E35402C1FBD4032F38E403B5B794045D1D34052C8F0406362654079619B4097BA6240C319ED41101EBC41161C02411F
808C00000000000000000000000000000000000000000000000000000000000000119DF00053D22
01200000011C00000000000480000009F00000006000000070000000300000002C00000020000001200000000A0000001F0000  REC     2, LENGTH    288
01300000001E00000000000000000000000043DBABD2C28F61E14251543A42520FC1425602FB4040F240424 3F7D442944CCC
00000000000000040000000000000000000000000000000000000003FACA1813FAFA49D3FBCEE193FCC62B63FDD1B1D3FEF
318F40102C2D401182C74013015E4014AEDC40169378401 8B963401B2D35401DFB6E402135A84024F37D402953DD402E7F5E
40349B15403BDF2A4044992F404F3A4F405C5687406CCE984081FBE1409D849640C2D0BB40F6CC2441141599411B33A94125
B2FC413483E20000000000000000000000000000000000000000000000000000119DF00053FD4
01200000011C00000000000480000009F00000006000000070000000300000002C0000001F000000120000000F0000002B0000  REC     3, LENGTH    288
00130000001E00000000000000000000000043DB616CC28E3365425247BA4252EA0A4256718C4040F24042440AE142944CCC
00000000000000040000000000000000000000000000000000000003F9E8F223FA01FDD3FB0800A3FC28CF33FD672853FEC
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5B174131F27800000000000000000000000000000000000000000000000000119DF000540F6
01200000011C00000000000480000009F00000006000000070000000300000002C0000003B000000120000001600000009000 0  REC     4, LENGTH    288
00130000001E00000000000000000000000043DB1070C28CB615425331D64253AF714256D5464040F24042441F0942944CCC
00000000000000050000000000000000000000000000000000000003FB63C7F3FB6F3B53FC5C9853FD5D34F3FE72A063FF9
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40355FB0403C615F4044C4CC404EF5BA405B8ED4406B60EF407F83F44099DC8040BD143140ED6E43411334EE4119580F0000
00000000000000000000000000000000000000000000000000000000000000000119DF0005420E
01200000011C00000000000480000009F00000006000000070000000300000002D0000001C000000120000001E000000380000  REC     5, LENGTH    288
00130000001E00000000000000000000000043DAB316C28AA22F425422AB425468414257326F4040F240424435CF42944CCC
00000000000000050000000000000000000000000000000000000003F9B4B00000000003FAB78563FBD7C3A3FD164983FE7
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40350929403B145D40429205404C3B294058E3E34068A068407C769F4096010C40B7DE7340E68FA54112AB4241193E424123
0674413003E30000000000000000000000000000000000000000000000000000119DF000544C0
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44
15
159