#167

ALOUETTE 2, ISIS 1 + 2

ARC INT. PROFILES PACKED TAPE

65-098A-01J

69-009A-01C

71-024A-01C

2 tapes

Table of Contents

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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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

2. ERRATA/CHANGE LOG:

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

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

Version	Date	Person	Page	Description of Change
01				
02				

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

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

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

4. CATALOG MATERIALS:

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

b. Core Catalog Materials

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:

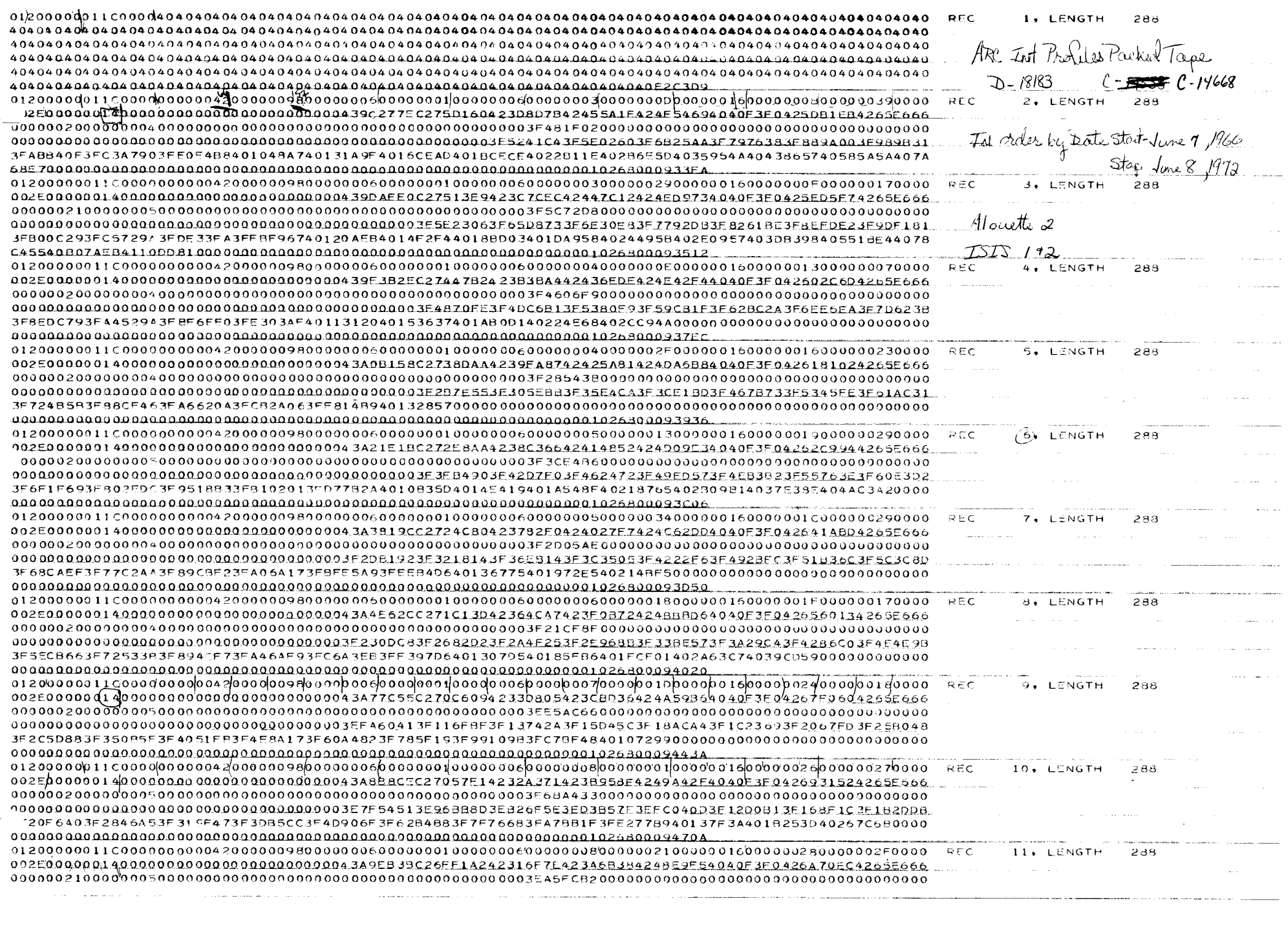
RECORD (4 BYTES)	PRINT FORMAT	DESCRIPTION
1	F12.2	LAMDA DIP AT 3500 KM
2	F12.2	LAMDA DIP AT 3400 KM
•	•	•
•	•	•
•	•	•
33	F12.2	LAMDA DIP AT 300 KM
34	F12.2	LAMDA DIP AT 200 KM
35	I12	LOCAL TIME AT 3500 KM
36	I12	LOCAL TIME AT 3400 KM
•	•	•
•	•	•
67	I12	LOCAL TIME AT 300 KM
68	I12	LOCAL TIME AT 200 KM
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)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ARC Int Profiles Packed Tape
D-18183 C-14668
REC 2, LENGTH 288
1st order by Date Start-June 7, 1966
Stop June 8, 1972
REC 3, LENGTH 288
Alouette 2
ISIS 1/2
REC 4, LENGTH 288
REC 5, LENGTH 288
REC 6, LENGTH 288
REC 7, LENGTH 288
REC 8, LENGTH 288
REC 9, LENGTH 288
REC 10, LENGTH 288
REC 11, LENGTH 288

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012000000110000000004200000098000000060000001000000060000000A000000080000001600000002E000000280000  REC   13, LENGTH   288
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0000000000000000000000000000000000000000000000000000000000000000000102720007ADE6
012000000110000000004200000 0A200000006000000 0B000000050000000400000015000000240000000 80000  REC   20, LENGTH   288
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14
13
159