

*John
Dräger*

UNITED STATES GOVERNMENT

Memorandum

TO : Deputy Chief, EROS Data Center

FROM : Chief, Computer Services Branch

SUBJECT: Analysis of the EDC Tape Archives

DATE: October 25, 1988
OCS 10-9
OCST 10-88

The Computer Operations Section has completed the semiannual review of the EDC tape archives this month. The trends in growth for all categories are illustrated by a breakdown of the tapes that remain in the tape library beginning in 1975. This report documents raw archive growth rather than tape library activity. This analysis is routinely performed to assess historical archive growth, identifying the categories where the highest levels of growth are occurring in order to define projected requirements for archive storage space.

During the past six months, 214 additional high density tape (HDT) slots were filled in the archive. Within the same period, 4,355 new slots were filled in the 1/2" library. Data sets with high growth during this study period are the following:

AVHRR:	1,589
Computer Services Branch/ System backups:	346
Digital Data Production Section:	635
Federal Owned Landsat Data (FOLD):	912
Sciences & Applications Branch:	909
TMCCTs:	2,153

R. J. Thompson
R. J. Thompson

Attachments

Distribution: Senior Staff
Section Chiefs
TGS Project Management
TGS Supervisors
Operations - 2
EDC Chron
CSB Subj
RJT Chron

*Old Area 4427 ft²
New Area 8000 ft²*



TAPE LIBRARY STORAGE STATISTICS

Tape Holdings in Working Archive

4,427 Square Feet

HDT Storage

Total HDT slots:	17,640
HDT slots in boxes above bays:	360
HDT slots in bays:	17,280
*Available Slots:	3,636
*Used slots in bays:	13,858
*Remain in archive since 1975-1980:	3,228
1981:	3,490
1982:	1,850
1983:	1,042
1984:	968
1985:	646
1986:	1,083
1987:	1,109
October 4, 1988:	442

1/2" Tape Storage

Total slots:	85,366
*Available slots:	21,073
*Used slots:	64,293
*Remain in archive since 1975-1980:	3,805
1981:	1,352
1982:	2,340
1983:	3,389
1984:	10,208
1985:	11,332
1986:	8,046
1987:	11,048
October 4, 1988:	12,773

* 1800 SKYLAB CCTs are not included in this total since they are stored in boxes above the HDT bays.

Landsat CCT-X in New Storage Area

8,000 Square Feet

Ancillary 1/2" Tapes - 4,811

Wide Band Video Tapes-26,158

DISTRIBUTION OF TAPE HOLDINGS

Computer Operations Section

Production

INORAC - Batch processing, audits, database and production backups, archive tapes.

Tape holdings to date:	794
Remain in archive since 1975-1985:	137
1986:	48
1987:	94
October 4, 1988:	515
Retention - non-permanent:	562
permanent:	232

EOSAT - GHITs, TIFTs, AROTs, ASITs, GFITs, batch processing, audits, data base and production backups, archive tapes.

Tape holdings to date:	1,153
Remain in archive since 1975-1985:	42
1986:	76
1987:	93
October 4, 1988:	942
Retention - non-permanent:	992
permanent:	161

System Backups - System backups for twenty computer systems-excludes the B6900.

Tape holdings to date:	2,115
Remain in archive since 1975-1985:	353
1986:	63
1987:	328
October 4, 1988:	1,371
Retention - non-permanent:	1,822
permanent:	293

Catalog Manager - Vax A and Vax B catalog manager tape library

Tape holdings to date:	125
Remain in archive since 1975-1986:	0
1987:	85
October 4, 1988:	40
Retention - non-permanent:	0
permanent:	125

Electronic Maintenance Unit (EMU)

Tape holdings to date:	23
Remain in archive since 1975-1987:	0
October 4, 1988:	23
Retention - non-permanent:	0
permanent:	23

Systems Accounting

Tape holdings to date:	724
Remain in archive since 1975-1985:	53
1986:	224
1987:	233
October 4, 1988:	214
Retention - non-permanent:	724
permanent:	0

Miscellaneous

Tape holdings to date:	97
Remain in archive since 1975-1985:	19
1986:	6
1987:	43
October 4, 1988:	29
Retention - non-permanent:	66
permanent:	31

Software Development Section

Tape holdings to date:	956
Remain in archive since 1975-1985:	417
1986:	130
1987:	187
October 4, 1988:	222
Retention - non-permanent:	471
permanent:	485

Data Management Section

Tape holdings to date:	87
Remain in archive since 1975-1985:	1
1986:	17
1987:	11
October 4, 1988:	58
Retention - non-permanent:	63
permanent:	24

Digital Data Production Section

Image Processing

Tape holdings to date:	5,061
Remain in archive since 1975-1985:	1,674
1986:	719
1987:	1,160
October 4, 1988:	1,508
Retention - non-permanent:	1,068
permanent:	3,993

Geometric Registration

Tape holdings to date:	263
Remain in archive since 1975-1985:	114
1986:	38
1987:	57
October 4, 1988:	54
Retention - non-permanent:	212
permanent:	51

Science & Applications Branch

Tape holdings to date:	5,560
Remain in archive since 1975-1985:	1,258
1986:	943
1987:	1,871
October 4, 1988:	1,488
Retention - non-permanent:	1,580
permanent:	3,980

VESCO - Facility Engineering

Tape holdings to date:	10
Remain in archive since 1975-1985:	5
1986:	1
1987:	3
October 4, 1988:	1
Retention-non-permanent:	0
permanent:	10

Digital Data Sets

AMES - Aircraft images and panoramic film data base tapes.

Tape holdings to date:	778
Remain in archive since 1975-1985:	482
1986:	65
1987:	229
October 4, 1988:	2
Retention-non-permanent:	0
permanent:	778

AVHRR/ADAPS

Archive - EDC acquired and non-EDC acquired

Tape holdings to date:	2,479
1975-1986:	0
1987:	477
October 4, 1988:	2,002
Retention-non-permanent:	773
permanent:	1,706

Microfiche

Tape holdings to date:	7
1975-1986:	0
1987:	2
October 4, 1988:	5
Retention-non-permanent:	7
permanent:	0

AVHRR/SCRIPPS

Original - Level 1-B tapes-non-EDC acquired. These tapes have been reformatted to the Archive format.

Tape holdings to date:	461
Remain in archive since 1975-1985:	191
1986:	83
1987:	18
October 4, 1988:	169
Retention - non-permanent:	442
permanent:	19

Processed - "Unpacked" on HP3000

Tape holdings to date:	454
Remain in archive since 1975-1985:	234
1986:	187
1987:	33
October 4, 1988:	0
Retention - non-permanent:	2
permanent:	452

CCT-X

Tape holdings to date: 12,891
Remain in archive since 1972-1985: 10,639
 1986: 1,871
 1987: 374
 October 4, 1988: 7
Retention - non-permanent: 0
 permanent: 12,891

DEM/DLG/DTT

Digital Elevation Model - Digital representation of terrain elevations - 7.5 quadrangles and 1:250,000 scale

Tape holdings to date: 233
Remain in archive since 1975-1985: 199
 1986: 17
 1987: 8
 October 4, 1988: 9
Retention - non-permanent: 0
 permanent: 233

Digital Line Graph - Line map information in digital form - 1:24,000 scale

Tape holdings to date: 75
Remain in archive since 1975-1985: 61
 1986: 0
 1987: 4
 October 4, 1988: 10
Retention - non-permanent: 0
 permanent: 75

Digital Terrain Tape - Elevation data - 1°x1° blocks and 1:250,000 scale

Tape holdings to date: 3
Remain in archive since 1975-1985: 3
 1986: 0
 1987: 0
 October 4, 1988: 0
Retention - non-permanent: 0
 permanent: 3

(Federal owned Landsat Data) FOLD - pre-EOSAT

Tape holdings to date: 3,017
Remain in archive since 1972-1985: 2,836
 1986: 21
 1987: 33
 October 4, 1988: 127
Retention - non-permanent: 0
 permanent: 3,017

Lending Libraries

Landsat CCTs purchased from EOSAT(Lending)

Tape holdings to date:	457
Remain in archive since 1975-1985:	27
1986:	176
1987:	203
October 4, 1988:	51
Retention - non-permanent:	4
permanent:	453

SPOT (Lending)

Tape holdings to date:	188
1975-1985:	0
1986:	15
1987:	124
October 4, 1988:	49
Retention - non-permanent:	0
permanent:	188

MOS (Lending)

Tape holdings to date:	3
Remain in archive since 1975-1985:	0
1986:	0
1987:	0
October 4, 1988:	3
Retention-non-permanent:	0
permanent:	3

Gravity/Geophysical

Tape holdings to date:	6
Remain in archive since 1975-1985:	2
1986:	1
1987:	2
October 4, 1988:	1
Retention - non-permanent:	0
permanent:	6

JPL

Tape holdings to date:	161
Remain in archive since 1975-1985:	160
1986:	1
1987:	0
October 4, 1988:	0
Retention - non-permanent:	0
permanent:	161

LGSWOG

Landsat foreign ground station data - Original foreign station tape
changed to interchange tape format.

Tape holdings to date:	19
Remain in archive since 1975-1985:	0
1986:	1
1987:	5
October 4, 1988:	13
Retention - non-permanent:	18
permanent:	1

MOS - Original tapes

Marine Observation Satellite

Tape holdings to date:	3
Remain in archive since 1975-1985:	0
1986:	0
1987:	0
October 4, 1988:	3
Retention - non-permanent:	0
permanent:	3

National Park Service

Tape holdings to date:	95
Remain in archive since 1975-1985:	73
1986:	13
1987:	9
October 4, 1988:	0
Retention - non-permanent:	0
permanent:	95

NDCDB

DLG 1:2 million

(Includes 4 originals and 4 working copies)

Tape holdings to date:	8
Remain in archive since 1975-1985:	0
1986:	8
1987:	0
October 4, 1988:	0
Retention - non-permanent:	0
permanent:	8

DEM 1:250,000 Arc Sec

Tape holdings to date:	153
Remain in archive since 1975-1985:	0
1986:	102
1987:	47
October 4, 1988:	4
Retention - non-permanent:	0
permanent:	153

NURE

National Uranium Resource Evaluation

Tape holdings to date:	963
Remain in archive since 1975-1985:	950
1986:	0
1987:	0
October 4, 1988:	13
Retention - non-permanent:	0
permanent:	963

Sample CCTS

Sample TM CCTS and EDIPS CCTS.

Tape holdings to date:	8
Remain in archive since 1975-1985:	8
1986:	0
1987:	0
October 4, 1988:	0
Retention - non-permanent:	0
permanent:	8

Skylab S192 (boxed above bays in HDT library)

Tape holdings to date:	1,800
Remain in archive since 1975-1980:	1,800
Retention - non-permanent:	0
permanent:	1,800

SLAR

Side Looking Airborne Radar - 51 corresponding HDTs are stored in the library.

Tape holdings to date:	826
Remain in archive since 1975-1985:	0
1986:	96
1987:	263
October 4, 1988:	467
Retention - non-permanent:	0
permanent:	826

SPOT - original tapes

Tape holdings to date:	236
Remain in archive since 1975-1985:	0
1986:	27
1987:	157
October 4, 1988:	52
Retention - non-permanent:	0
permanent:	236

TM

Quadrants loaded in the MIF and those received at EDC without film.
(Seven of the quads are GCP-corrected and they are not in the MIF.)

Tape holdings to date:	23,775
Remain in archive since 1975-1985:	12,490
1986:	3,097
1987:	4,865
October 4, 1988:	3,323
Retention - non-permanent:	0
permanent:	23,775