NDAC/LO/041

1984 June 30

NDAC Process Diagram

by L Lindegren

Processes:

AR0	=	Attitude Reconstitution – determination of reference attitude
AR1	=	Attitude Reconstitution – first stage (ξ, ν, Ω)
AR2	=	Attitude Reconstitution – second stage (improved Ω)
CONTR	=	control program for Set Solution
DH	=	data handling routines (extract, sort, edit, distribute, ...)
DS	=	Double Star analysis
IDTM	=	photometric analysis of IDT signal (magnitudes)
IDTPP	=	IDT Preprocessing
LE	=	Location Estimator
OTFC	=	OTF Calibration
SETSOL	=	Set Solution (Step 1)
SMPP	=	Star Mapper Preprocessing
SMSUM	=	Star Mapper Stars Update, Magnitudes
SMSUP	=	Star Mapper Stars Update, Positions
SPHER	=	Spherical Reduction (Step 2/3)
STAT	=	Statistical Analysis of GOF data (for binary detection)
UPD	=	Update star catalogue

Tapes:

T1 (ESOC $\Rightarrow$ UK)	=	Input Catalogue, calibrations, and other data not part of the regular transfer
T2 (ESOC $\Rightarrow$ UK)	=	regular (weekly) data transfer
T3 (UK $\Rightarrow$ DK)	=	regular (weekly) data transfer
T4 (UK $\leftrightarrow$ DK)	=	successive versions of object catalogue and calibrations
T5	=	complete record of IDT signal parameters (chronological)
T6	=	complete record of abscissae (chronological)
T7	=	catalogue version including results of the Spherical Reduction and GOF data from all stages of reduction
T8	=	successive versions of the Output Catalogue

Files:

A0	=	reference attitude
A1	=	preliminary attitude
A2	=	improved attitude
ABSC	=	abscissae, sorted by object
AOCS	=	attitude and orbit control system data
CAT	=	catalogue of object parameters (astrometric and photometric) and other parameters (OTF, LSD, SSD, global)
CATU	=	catalogue updates
DSP	=	double star parameters
FLAGS	=	flagged objects (suspected binaries)
G	=	grid coordinates
GOF	=	goodness-of-fit results
IDT	=	IDT data
IDTSP	=	IDT signal parameters
OBS	=	observations (at frame level)
SETF	=	set files
SETPAR	=	(default) set parameters
SIDTSP	=	selected and sorted IDT signal parameters
SM	=	Star Mapper data
SMTT	=	Star Mapper transit times
SUBCAT	=	sub-file of CAT
WF	=	work file

HIPPARCOS
NDAC Process Diagram

(1984 June 30)
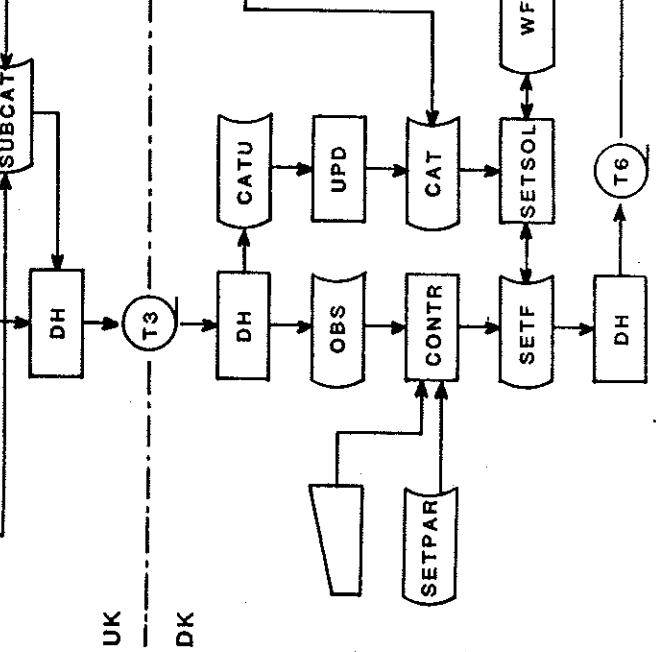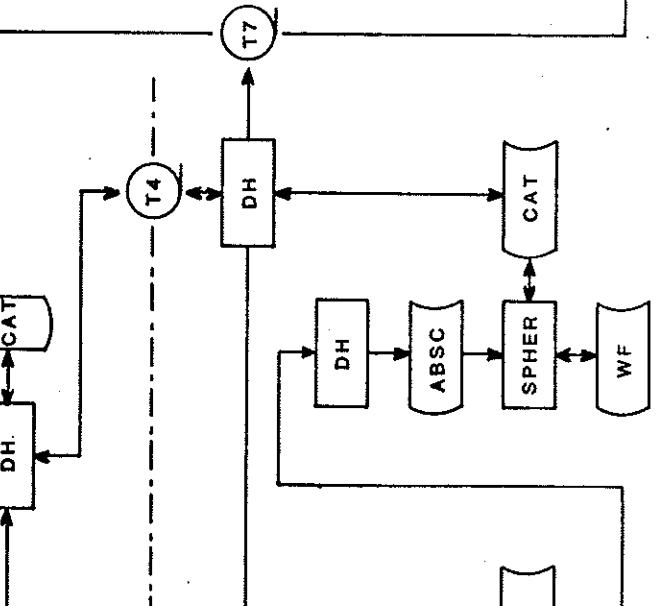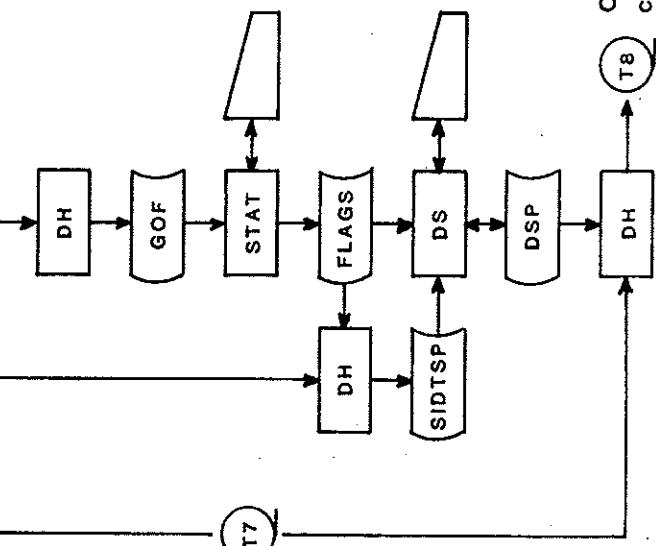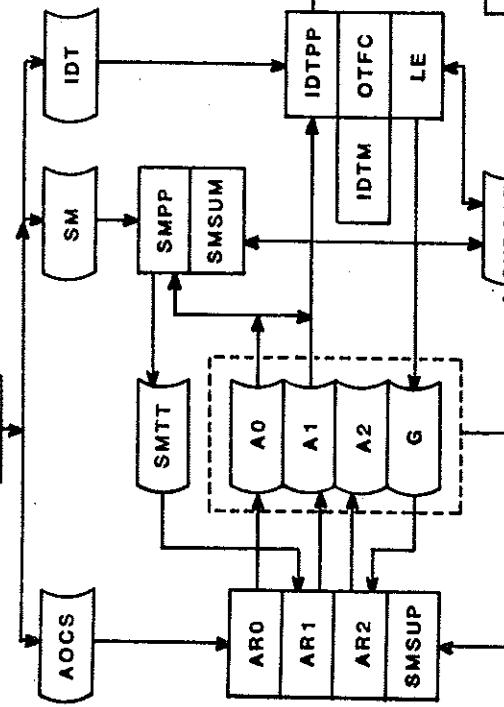
from ESOC

Input catalogue calibrations

weekly data

Output catalogue

T1 T2 T3 T4 T5 T6 T7 T8

DH GOF STAT FLAGS DS DSP DH

DH SIDTSP

IDTSP DH

IDT SM SMTT AOCS

SMPP SMSUM

IDTPP OTFC LE IDTM

A0 A1 A2 G

AR0 AR1 AR2 SMSUP

SUBCAT

CAT

DH.

DH

CATU UPD CAT WF

DH OBS CONTR SETF DH

SETSOL

SETPAR

DH ABSC SPHER WF

CAT

UK
DK