

## COPY Mission: Planning and Analysis Division NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MANUE SHACKINGT CEXTER HOUSTON, TAXAS 7788

IN REPLY REPLY TO 70-19934-113

May 2.5 1970

MEMORASDEM TO: See attached list

BOM : FM5/Chief, Lunar Mission Analysis Branch

SUBJECT : Corrections to the flyby options of the RFCC Midcourse Correction Processor as specified in Internal Note No. TO-FM-1

The three flyby options use similar logic for the first five steps of each option. Option 8, the SFS lumar flyby, will be used as an example; but the changes indicated apply to each option. These changes have been coordinated with Flight Software Branch and IBM.

Ronald L. Berry
Bonald L. Berry
AFPROVED BY:

John M. Mayer
Chief Mission Planning

and Analysis Division

The Flight Software Branch concurs with the above recommendation.

James C. Stokes, Jrv, Chie Flight Software Brench

Enclosure

Addressees:

MPAD STANDARD INTERNAL NOTE DISTRIBUTION LIST (Sevined April 27, 1970)

McB/Decesty Director -#M63/Pechnical Library (2) \_EA2/Assistant Director for Electronic Systems -MI/Assistant Chief for Engineering and Development-FA/Director of Flight Operations/ #A/Deputy Director JA/Acting Technical Assistant for Apollo -JA/Technical Assistant for Space Shuttle and Space Station-PA/Chief, Office of Program Management MA/Chief, Advanced Planning Support Office "L/Chief (2)" WES/Chief, Flight Support Division +FS/Chief, Flight Software Branch (3) WA/Napager for LM-\*PD/Acting Chief (2) was immed 100 11:00 W APM/Deputy Chief ►FN/Technical Assistant -₩N3/Chier\* worth / Chiland WM5/Chier WHELE WAR . FMT (Chiefe JOHN / Children

PNIS/Report Control File (25) - PNI/Author(s) - PRI/Author(s) - PRI/Author(s)

FN13/Chief ≠ FN13/NR Representative (2) ≠

MBM/J. Boskins (5)

W. Nucller (12)

G. James (2)

F. Hofbeinz

WHW/D. P. Johnson (3)

M. M. Gafford (4)

LPC/M. P. Frank
C. Bostick (2)

765/L. Dungan

E. Shinpangh

Lesch

MM/E. Schlesser (5)

MM/S. D. Yencharis

A. Holmes

R. Z. Zeiler

R. S. Bavis

CR. F. Wiley

NASA	A - Manned Spacecraft Center	1. Type	Change sheet to Internal Note	
	RELEASE APPROVAL		tification YO-PM-11 dated February 6, 1970	
		Paga	1 of 1 Pages	
то:		3.FRCH: Division Mis Sranch Lun	sion Planning and Analysis ar Mission Analysis	
FLYNY HODE	Subject MICC REQUIREMENTS FOR IS OF THE THANSLURAR HIDCOURSE	AFOLLO 18: LUNA	BBOR Hay 25, 1970	
5. Author(s)	Kenneth T. Zeiler and Quenti	s A. Holmes		
	6. Dise	ribution		
Number of Copies	Addresses		Special Handling Hethods	
	See attached memo			
	-			
	s a change to distribution on s an addition to distribution			
7. Signature	of Branch Head   Signature	of Division Chies	Date	
Signature of	Appropriate Assistant Director	or Program Manay	per Date	
. Change or	Addition made by		Date	
. Location o	of Driginals;			
ist form 199	(Rev Dec 63)			

Change no.	Date	Description
1	5/25/TO	New To seme-mixed change to correct typographical err Pergel S and 5, N and 5, 22 and 52; changed steps beam of almosfering.  A blist the call to integrated typographical error beam of the call to integrated typographical error of the call by the call to integrated and the call to integrated typographic error of the call to integrated the call to integrated integrated and the call to integrated integrated of a continue of the call to integrated integrated and the call to integrated and the call to integrated and the call the call to integrate and the call the
		Page 18: pen-and-ink change to correct error in step 6. Page 18: pen-and-ink change to show program modification to step 8. Pages 13 and 20: REIGHT of PERLIAME in block that reads SCALS MEDIE OF PERLIAME FOR TIME.

## CHANGE SHEET

MEC INTERNAL NOTE TO-FM-11 DATED FEBRUARY 6, 1970 HTCC REQUIREMENTS FOR APOLLO 14: LUNGAR FLYEY MODES OF THE TRANSLUMAR NIDOOMSE CORRECTION PROCESSOR By Kenneth 7, Zeiler and Questin A. Nolmes

> Change 1 May 25, 1970

Romald L. Berry, Chief Lumar Mission Analysis Brench

John P. Mayer, Chief Nission Planning and Analysis Division

Page 1 of 13 (with enclosures)

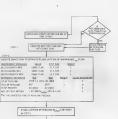
NOTE: A black bar in the margin indicates the area of change.

After the attached enclosures, which are replacement pages, have been inserted and after the following pen-and-ink changes have been made, insert this CHANGE SHEET between the cover and the title page and write on the cover, "CHANGE I inserted".

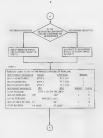
 Page 7: change WRIGHT to HEIGHT in the block that reads "SCALE WRIGHT OF PERILINE FOR TIME".

 Page 17: Step 6 - The dependent variable ET OF PERILINE bas no weight and is class 1.

 Page 18: Step 8 - The dependent variable INCL OF PREE REFURN should have a MIN of -1° and a MAX of \*1° instead of t.01°.



\*For endingue removers performed from persions mines 1.5 for in profess for 12.5 or 12.5 for 12.5 for









STEP 2

GROCOTE COROT PLENT TO ROTHER PICEA DISC LATITICE OF NAMEMBER ROCL, PLYEN

BECCHOOLS VARIOUS VARIOUS VALUE TOP DISC

GOLTA SERVITIMES COROT TAMO \$1.544 1

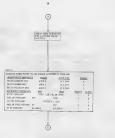
COULTA SERVER MCC COROT TAMO \$1.544 1

DELIFERATION CC. CONDUCTATE P1304 1
CONDUCTATE P130

STORE LATITION OF PERSONS MESSAGES NAMES

\*AT THE EXPECTED TIME OF PERSONS PASSAGE

\*Pro reclaims measures patiented from perform than 3.5 to to personal mension, the most heapth of personal for TLAES and the lipse share shape of each State personal personal action of the mensions of the state of





## STERE INTEGRATED NAME OVER THE AND A COLOR

| Texture | Text



Company A. Andrews Company Control

CHANGE I NO ELL

STATE VECTOR BEFSET

PROGRAM REESS:

53 - PREMISCOURSE STATE

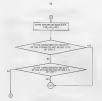
53C - COME POSTMICCOURSE STATE

AND APP, AZ, - INTOCRATED MICCOURSE CORRECTION

COMPLETE STATE IS 5' # 100 - 3X., 4Y., 5Z.

SO POLARONS SO SOLARONS AV, by, be
AR, by, by ARE PRIST CRESSES FOR STEP 5

TIS A METER OF THE PERSON OF T





For malescence resonancy performed their purchase characters to produce the product annual. One state heapful of performe the TAMC and one to perform the malescence of the state of their period and performed and applications of the state o



