Finding SUN's GHA / Dec with Table 4 from HO249 Vol 2 or 3

Date [ ] d [ ] m [ ] y

Time GMT [ ] h [ ] m [ ] s !! Round this Time to the nearest integral hour

Before or on xx h 30 m use xx h

Rounded GMT [ ] h After or on xx h 31 m use xx+1 h

Corr.Time for Year Table a. [ ] h !! For date after 29 feb in leap year use next line (") in table a.

----- ± !!Sign depends on value found inTable a

Orbit Time "OT" [ ] h If "OT" is negative use date one day earlier and count 24 h to "OT" to get correct "OT"

If "OT" is > 24 h use date for next day and subtraxt 24 h from "OT" to get correct "OT"

Date for "OT" [ ] d "OT" [ ] h

Go to main TABLE 4 with horizontal Month en Vertikal Date for "OT' for E
Find first E and correct it tot GHA

E [ ] º [ ] '

Correction table b for E [ ] º [ ] '

---------- ±

Corrected E [ ] º [ ] '

Go to Table c with GMT hour
and rounded lower 10 minutes [ ] º [ ] '

Go to table d with GMT rest of
minutes and GMT seconds [ ] º [ ] '

---------- +

GHA sun [ ] **º** [ ] **'**

Find Diff E (subtract ' value from NEXT DAY ' value. Watch on sign)
Go to table 4: Horz. = Diff, Vert= OT
Find E correction in ± '
Diff is minus? Corr is minus. Vise versa
Diff E=
Go to Table b. for correction in E

Go again to main TABLE 4 with horizontal Month en Vertikal Date for "OT' for Dec and N or S value

N or S

Dec [ ] º [ ] ' [ ]

Correction table b for Dec [ ] º [ ] '

---------- ± Sign from Diff Dec

Dec Sun [ ] **º** [ ] **'** [ ]

Find Diff Dec, last colum, ½ line lower
(If Dec º ' value from NEXT DAY is less then "OT" Date value, Sign is minus **-**, if it is more then Sign is plus **+**.
Diff Dec=
Go to Table b. for correction in Dec