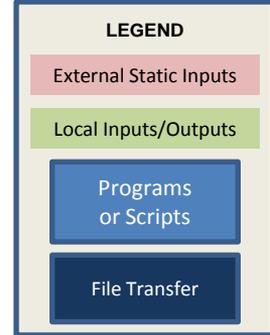


# HIRS UTWV Script

## AAPP data processing (hirclearsky\_m2.csh)



**Download data**  
Primary - NCDC

Level 1b satellite data  
nss.hirx.m2.dyyjjj

Make file names  
all lower case  
casechange\_u2l.ksh

Find the last two  
digits of the year  
two\_digit\_year.csh

lyr2 = yy

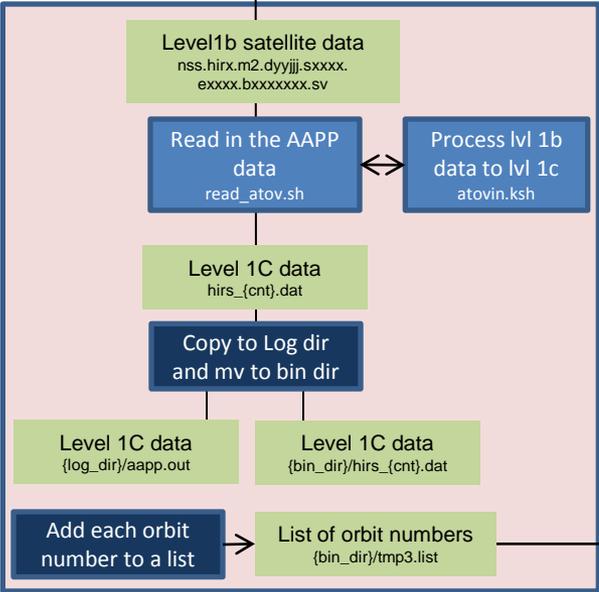
Find Month and  
Day from J-date  
calday2date.csh

mon = mm  
day = dd  
leap = 1,0

Day reset to  
Julian day  
day = jjj  
iyr4 = yyyy

Find # of days since  
Jan 1, 1969  
date\_to\_julian69.csh

jday69 = jjj69



HIRS 1C input  
hirs1c.input

Read Tb, perform  
QC and limb  
corrections on Ch 8  
hirs1c.f

All sky swath data  
and grid stats  
hirs1c.output

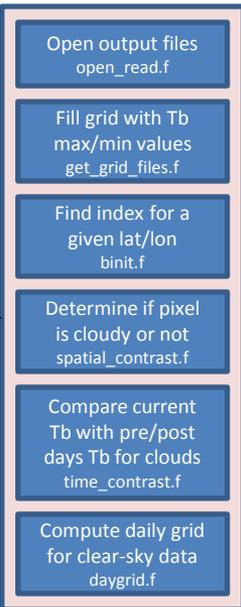
Find date  
from # of days  
since Jan 1,  
1969  
julan69.csh

year = yyyy  
day = jjj

sat, yyyy, jjj  
hcloud.input

Perform cloud  
detection  
hcloud.f

hcloud.output  
dgrid\_file  
tas\_file  
tcl\_file  
lmask\_0.5\_lsc\_space.dat  
hcloud.err



Done each 5 days for 5,  
15, and 35 day blocks

Combine daily Tb  
max grids  
multi\_day\_grid.f

multi\_day\_grid.out  
mgrid\_file

Make clear sky  
Tb 5-day grid  
hcloudcomp.f

hcloudcomp.out  
grid\_file

Find Tb  
clear sky  
values from  
grids  
hcloudcomp.f

satid, jday19  
hcloud\_lt.input

Remove persistent  
cloud cover  
hcloud\_lt.f

Find index for  
a given  
lat/lon  
binit.f

hcloud\_lt.output  
grid\_file  
tmp\_file  
cs\_file

Keep looping  
through until  
all files are  
read

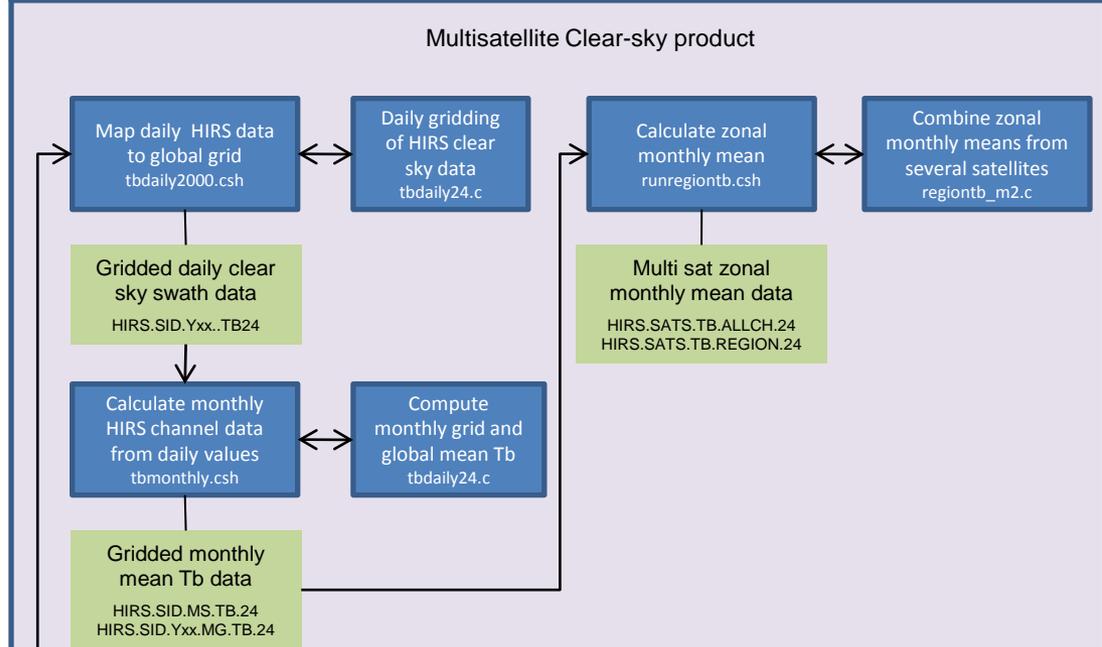
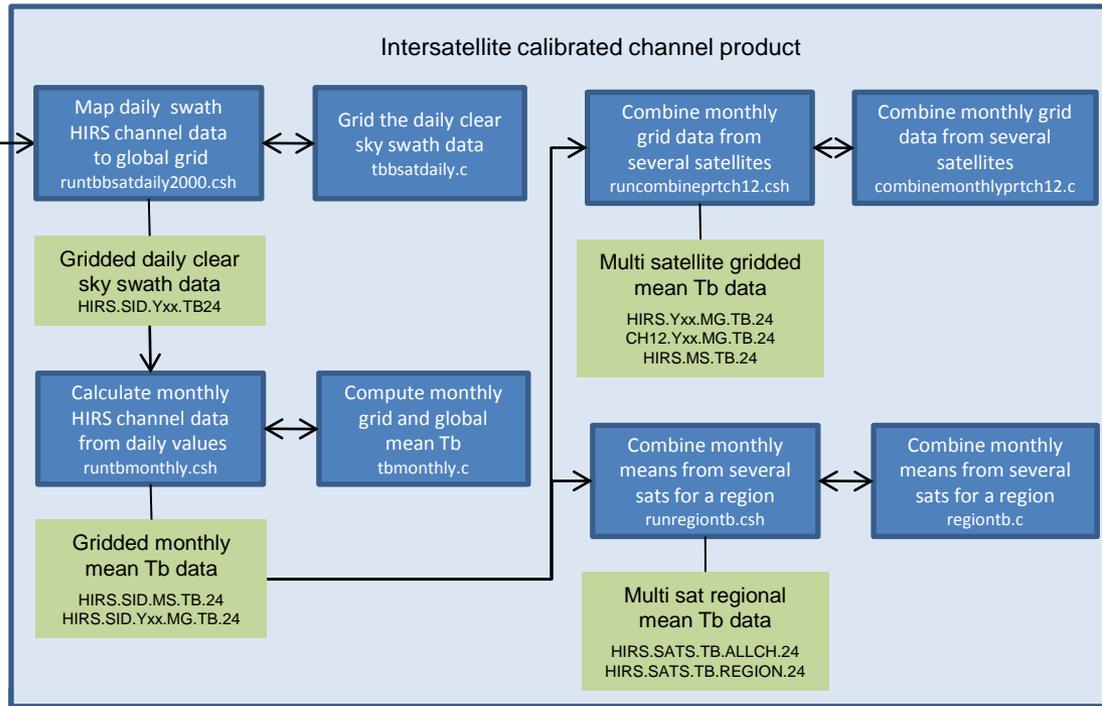
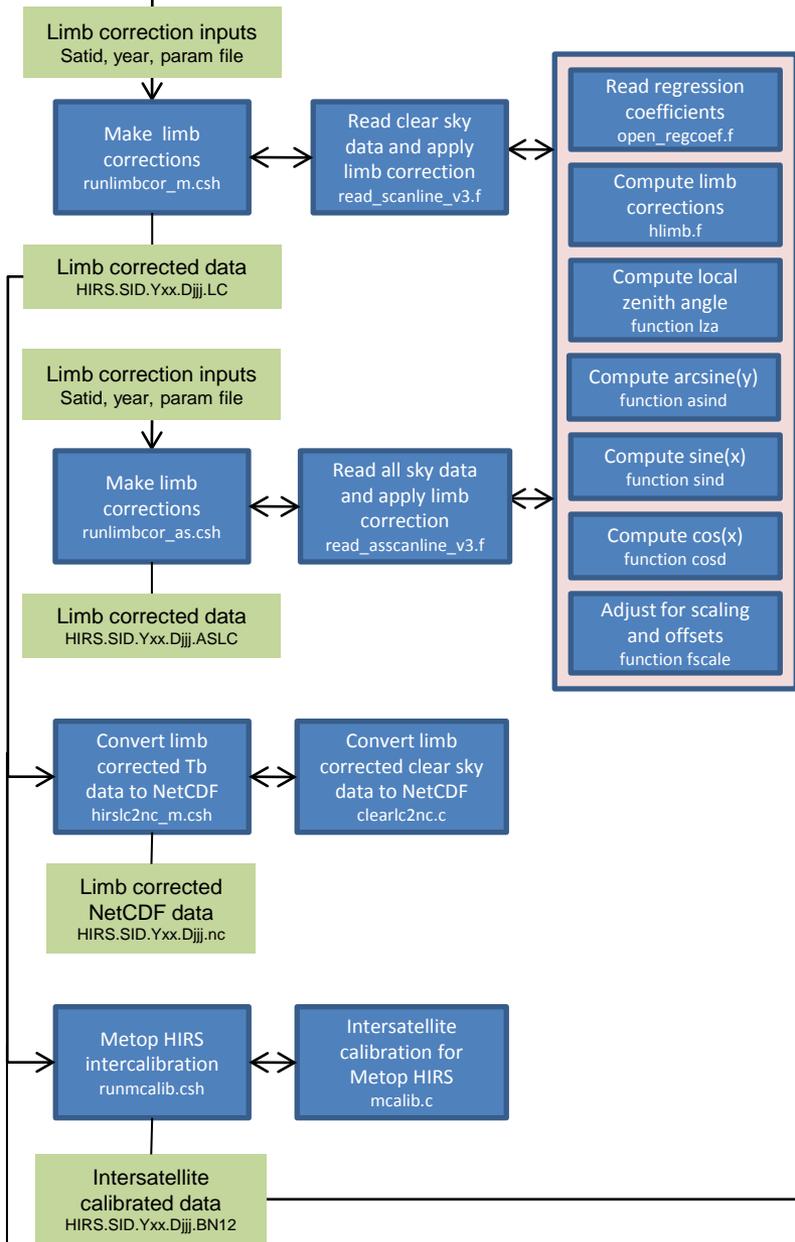
1

# HIRS UTWV Script

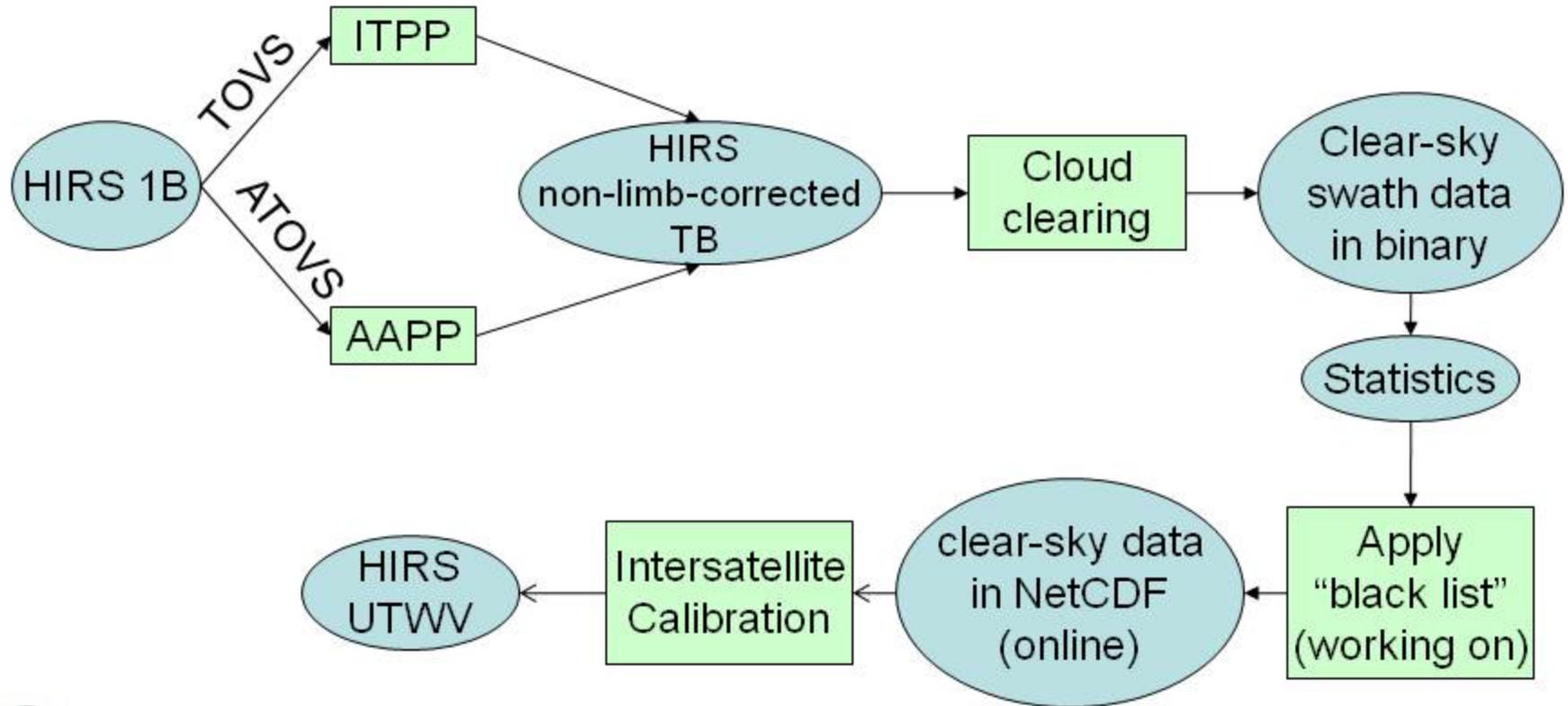
## AAPP data processing

(hirclearsky\_m2.csh)

1



# HIRS UTWV Data Processing



○ = Data  
□ = Functions