STEP 2 - CALCULATING THE SKY FRAME

Assuming that we use observations from one 'NOTCam script' that was carried out in less than 20-30 minutes or so, the sky haven’t had time to change that much and we can simplify things by only calculating one sky frame.

Also, assuming that 'beam switching' was used (as in the example data) we need some more lists...

```
off_cube.list  me180231[*,*,1]  off.list  off1
               me180232[*,*,1]  off2
               me180235[*,*,1]  off3
               . . .               . . .
               me180260[*,*,1]  off16
```

Most science observation scripts with NOTCam uses the ‘frame’ command to take exposures, this means that the images we get actually are cubes, with the first frame [*,*,1] being the final image, followed by intermediate non-destructive read-outs and finally the reset frame. So for a “frame 6 5” exposure we get a 1024x1024x7 cube.

If we’re not going to use the intermediate readouts (usually only the final frame is needed), we can write:

```
imcopy @off_cube.list @off.list
```

This command copies the first frame in each cube to the images in the off.list, now we must make another header fix:

```
epar hedit  images = @off.list
            fields = wcsdim
            value = 2
            verify = no
```

No we will not confuse imcombine with unnecessary extra dimensions! Median filtering now gives the final sky frame:

```
epar imcombine  input = @off.list
                output = sky_Ks
                combine = median
                scale = none
```

The sky frame is here called 'sky_Ks' and will contain the bias + dark + IR sky (filter Ks)

STEP 3 - SUBTRACTING THE SKY AND FLATFIELDING

Guess what, we need two more lists! They could for instance look like this:

```
on_cube.list  me180229[*,*,1]  on.list  on1
              me180230[*,*,1]  on2
              me180233[*,*,1]  on3
              . . .               . . .
              me180258[*,*,1]  on16
```

Removing the sky is now as simple as:  `imarith @on_cube.list - sky_Ks @on.list`

Yet another dimensional fix is now required:

```
epar hedit  images = @on.list
            fields = wcsdim
            value = 2
            verify = no
```

Flatfielding is then done with:  `imarith @on.list / masterflat_Ks @on.list`

* (this operation overwrites the on1-on16 images with flatfielded ones)