

awk '{print "\$1"}' SKY_061103.log > ~~sky-k.lst~~ sky-k.lst

emacs → temp file.

~~print~~ awk temp file + print of relevant column
dark.lst

→ domeflat.lst

grep dithes BDsurvey - > temp

grep J temp > j.lst

delete \$ domeflats ^{from} j.lst

→ Similarly for K, H, h.lst, k.lst

dark.lst domehflat.lst

h.lst

k.lst

domejflat.lst

j.lst

~~sky.lst~~
sky-k.lst

cl
instat edark.lst



epar incambine

edark.lst



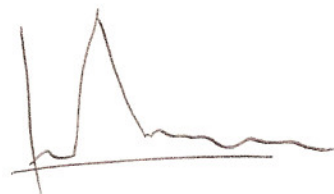
dark.fits

nlow = 1

nhigh = 1

" go .

imhist dark.fits



e

imhist dark.fits z1 = 500 z2 = 1000 binwidth = 1

z1 = 50 z2 = ~~750~~⁸⁰⁰ binwidth = 1

→ epar imreplace

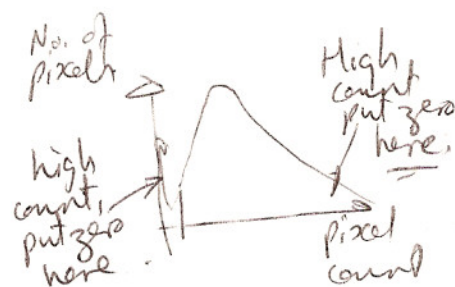
dark.fits

lower

100

upper

650



~~radius~~

→ out put in dark.fits

→ display dark.fits

[~~imcopy~~ imcopy dark.fits mask.fits

Now epar imreplace ~~dark~~.fits

→ display mask.fits
epar imreplace
lower = ~~indef~~ indef
upper = 100

lower = 600
upper = indef.

Do twice
once for
low
end,
and for
high
end.

→ flat.fits | For sky

New K-band flats

SKY.

xdimsum

~~seslm~~

seslm

@ sky-k.lst

Running average ~ 25

Not many stars so
try inccombine to make k band

skyflats.

inccombine

@ sky-k.lst

~~sky~~ sflatk.fits

imstat

sflatk.fits $\frac{inc}{\text{height}} \approx \text{mean}$ (looked at mean)

imarith

sflatk.fits / mean → sflatkn.fits

imarith

@ sky-k.lst / sflatkn.fits @ sky-k.lst

seslm

@ sky-k.lst

subtract mean sky from sky-k.lst.

epar

makemask @ sky-k.lst

skymask-k.lst
→ 4.pl.

Zmin = -1000

Zmax = 3000

sigma = 54

startsec [50: 1998, 50: 1998]

Hot fielding of the sky

subtracting from sky background

Making P.S.

Move .pl files to directory above
instat .pl's → should have mean close to zero.

epar incambine e sky-k.lst
sky-k.fits
bad pixel mask | sky-mask-k.fits

→ Add bpm keyword to ~~sky-k.lst~~ add files | badvalue = 1.
hedit (name of file) bpm — (name of pl file) add verify-

epar incambine e sky-k.lst
output sky-k.fits

→ results in sky-k.fits sky flat

inarith sky-k / sky-kold ratio.fits

instat sky-k to find mean count

inarith $\frac{\text{sky-k.fits}}{25182} \rightarrow \text{sflatk.fits}$

Final k band flat.

Should not have any values < 1.

sflatk.fits could be used to create another mask for another flatk.fits

inarith e k.lst / sflatk.fits e k.lst → see next page

~~instat sflath.fits~~

instat sflath.fits [50:1998, 50:1998]

hi = ~
 lo = ~

→ gives mean
 sflath.fits

inarith sflath.fits / mean

inarith @k.lst & mask2.fits @k

