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This Routines Demos the steps taken for all sky calibration

```
clear all;
```

Toggle figures on or off

```
toggle = 1; % ON
% toggle = 0; % OFF
```

Step 1: Collect star catalogue

```
starCatFITS = [initialize_root_path,filesep,'energy-height-
conversion',...
    filesep,'Tools',filesep,'External Tools',filesep,...
    'skymap',filesep,'hipparcos_extended_catalogue_J2000.fit'];

stars = get_star_catalogue(starCatFITS); % Star catalogue [INPUT]
```

Step 2: Collect information about the camera

Automatically calculating the darkest frame, so that we can use clear sky for calibration [Will be removed when converting the code to a function]

```
fileStr = 'C:\Users\nithin\Downloads\20080326.001_bc_15sec-
full_v2.h5';
[totalIntensity,timeArr]=estimate_darkest_frame(fileStr);
[val,indx]=min(totalIntensity);
timeStr = datestr(timeArr(indx));

% Get the time of the image
time = timeArr(indx); % [INPUT]
```

```
% Get camera location
dasc.sensorLoc = h5read(fileStr,'/DASC/sensorloc'); % [INPUT]
```

Step 3: Calculate star positions at camera location

Approximate star position is calculated using the following function

```
[stars.az,stars.el] =
 RADec2AzEl(rad2deg(stars.RA),rad2deg(stars.DEC),...
    dasc.sensorLoc(1),dasc.sensorLoc(2),datestr(time,'yyyy/mm/dd
 HH:MM:ss'));
```

Storing the location of a known star. In this case: the pole star.

```
polarisIndx = find(stars.HIP==11767);
% The index of polaris star in the star catalogue

polaris.az = stars.az(polarisIndx);
polaris.el = stars.el(polarisIndx);
```

A more accurate calculation can be made using the following function. It takes more time though.

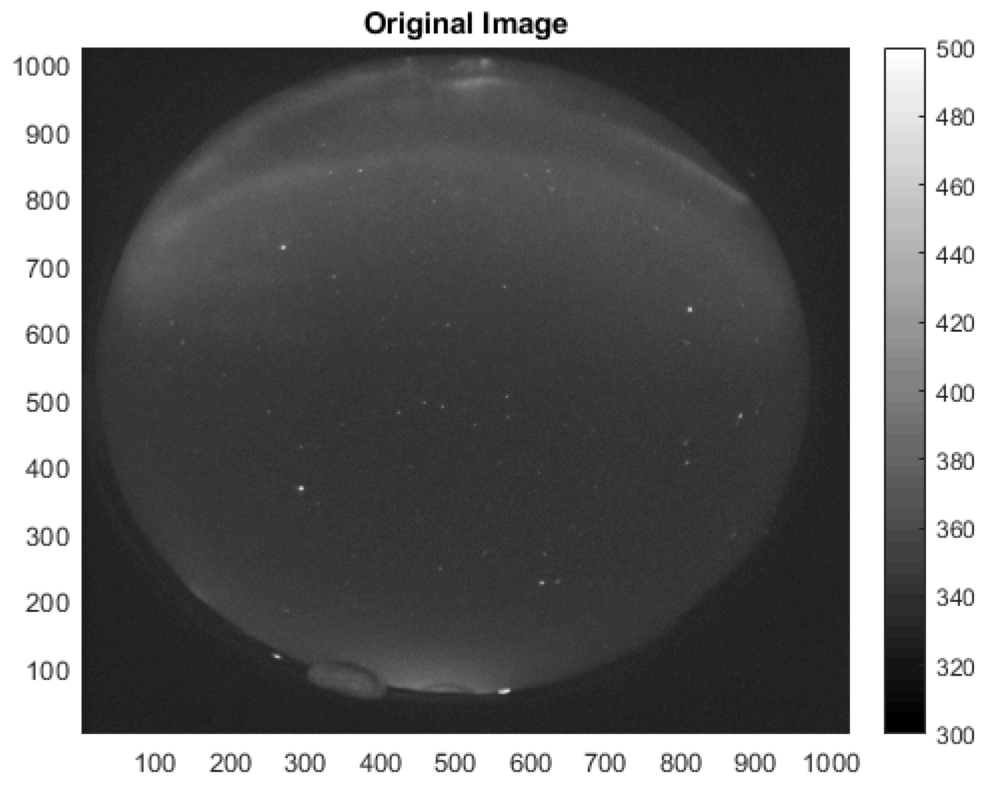
```
[polaris.azAccurate,polaris.elAccurate] = get_star_az_el...
    (stars.RA(polarisIndx),stars.DEC(polarisIndx),...

 stars.pmRA(polarisIndx),stars.pmDEC(polarisIndx),stars.parallax(polarisIndx),...

 stars.RV(polarisIndx),time,deg2rad(dasc.sensorLoc(1)),deg2rad(dasc.sensorLoc(2)),
```

Step 4: Get Image/ FITS File or Matrix

```
asiPath = 'C:\Users\nithin\Documents\GitHub\LargeFiles\DASC
\20080326\';
asi1File = 'PKR_DASC_0000_20080326_103958.000.FITS';
image1 = fitsread([asiPath,asi1File]); %% [INPUT]
display_image(toggle,image1,[300 500],'Original Image');
```

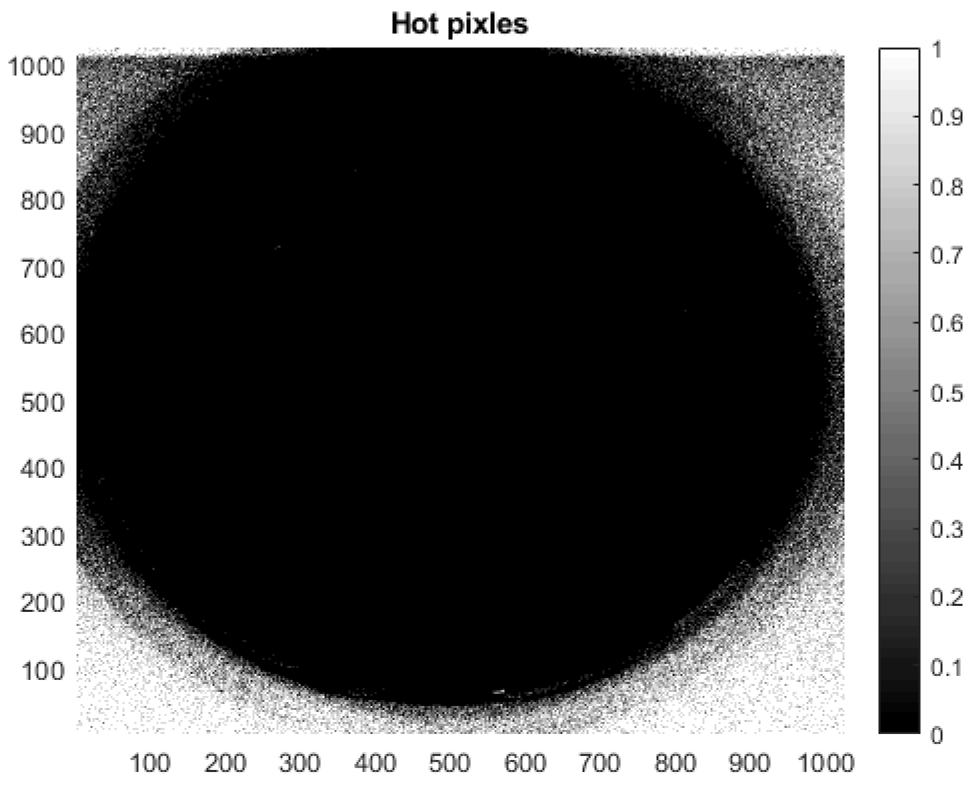


```
Get initial azimuth elevation grid

[dasc.az, dasc.el] = get_AzEl_grid(size(image1,1));
```

Step 4.1. Remove hot pixels If one needs to remove hot pixels one can attach another image that is separated in time

```
asi2File = 'PKR_DASC_0000_20080326_133018.000.FITS';
image2 = fitsread([asiPath,asi2File]);
[hotPixels] = identify_hot_pixels(image1, image2, 10);
display_image(toggle,hotPixels,[],'Hot pixles');
```



Step 4.2. Remove background

```
[image1BkgRem,backgroundRow, imRowNoise, pRow, muRow, a] =
 remove_background(image1,5);
display_image(toggle,image1BkgRem,[0 100],'Image with background
 removed from row');
display_image(toggle,backgroundRow, [200 800], 'Background with stars
 removed (After Row fits)');
display_image(toggle,imRowNoise,[0 10],'Noise (row fit)');

[image1BkgRem,background1, imColNoise] =
 remove_background(image1BkgRem');
image1BkgRem = image1BkgRem';
imColNoise = imColNoise';
background1 = background1'; %Background of the image i.e. without the
 stars.
display_image(toggle, image1BkgRem, [0 100], 'Image with background
 removed from row and column');
display_image(toggle,background1, [0 50], 'Background with stars
 removed (After Row and Col fits)');
display_image(toggle,imColNoise,[0 10],'Noise (col fit)');
```

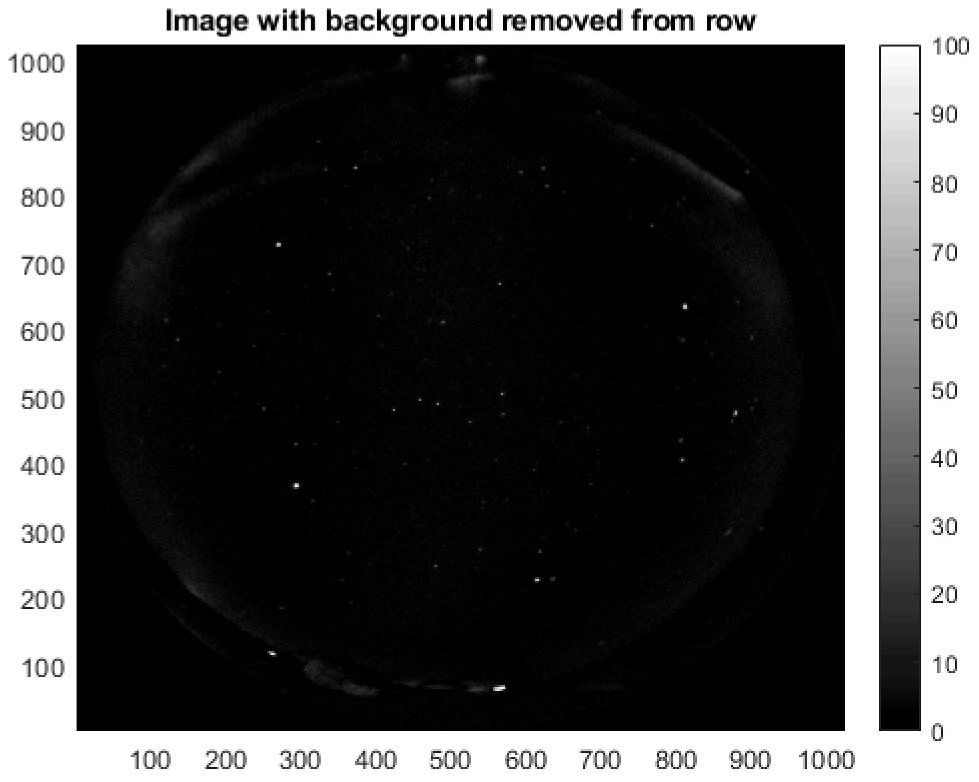
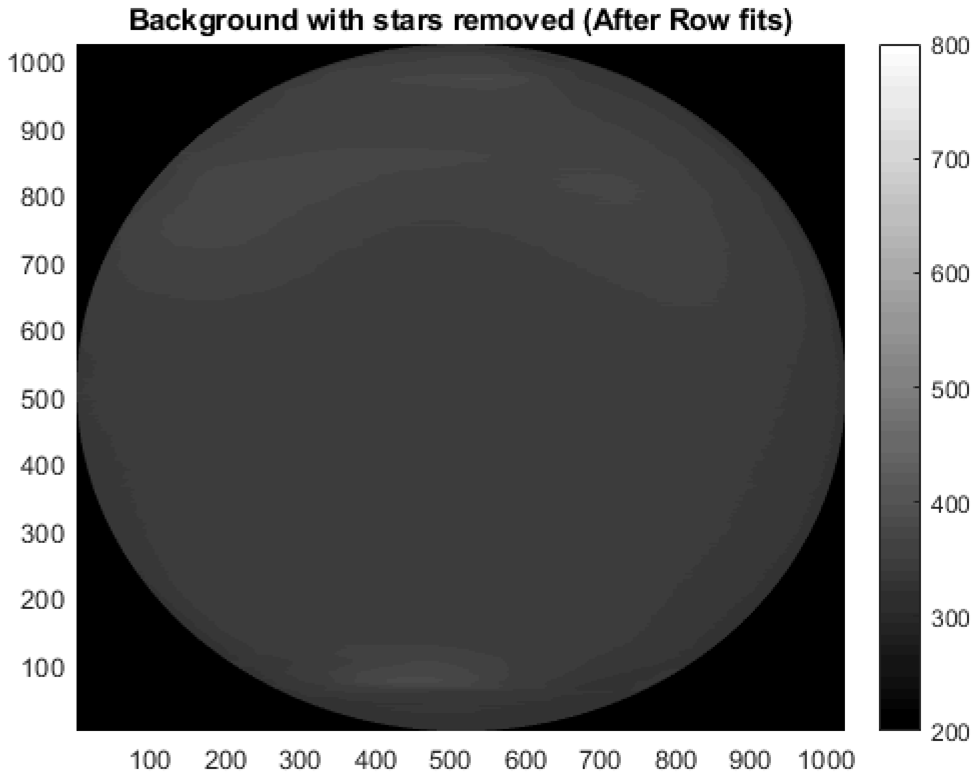
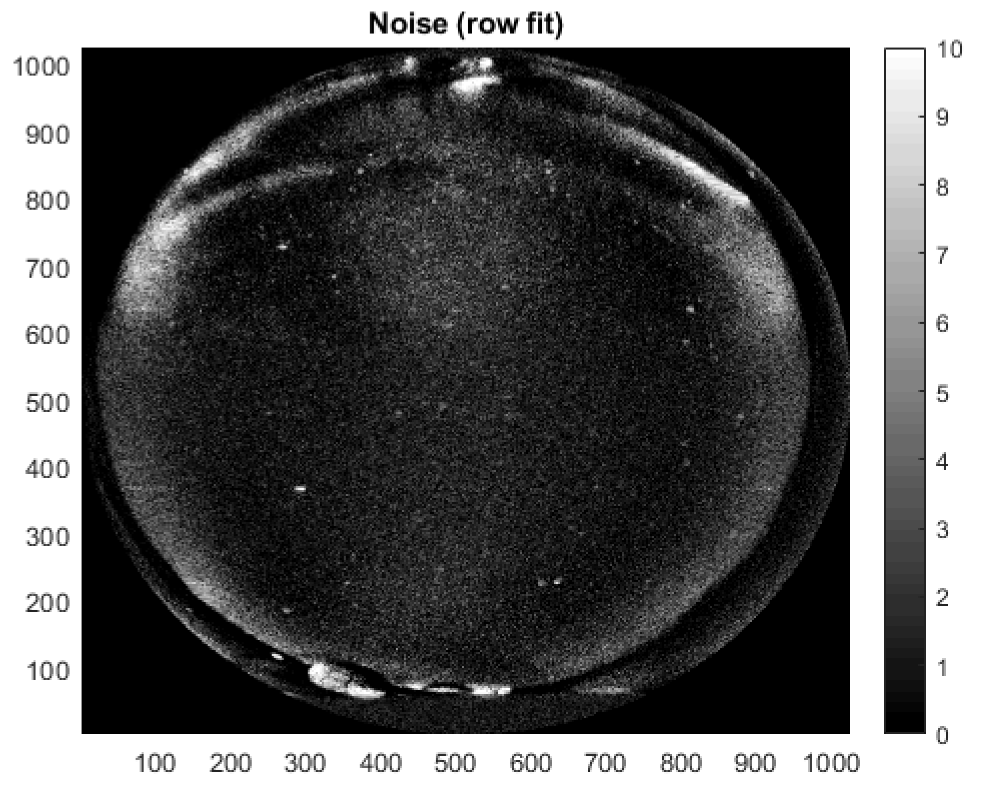


Image with background removed from row
1000
900
800
700
600
500
400
300
200
100
100
200
300
400
500
600
700
800
900
1000
100
90
80
70
60
50
40
30
20
10
0


Background with stars removed (After Row fits)
1000
900
800
700
600
500
400
300
200
100
100
200
300
400
500
600
700
800
900
1000
800
700
600
500
400
300
200



Noise (row fit)
1000
900
800
700
600
500
400
300
200
100
100 200 300 400 500 600 700 800 900 1000
10 9 8 7 6 5 4 3 2 1 0

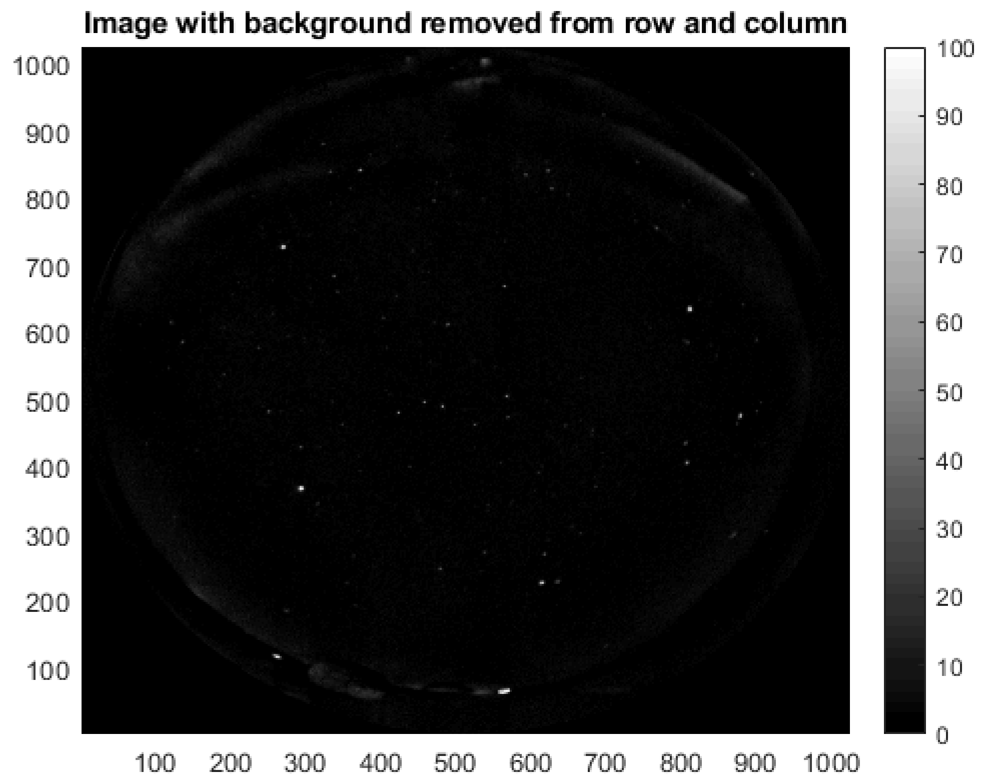
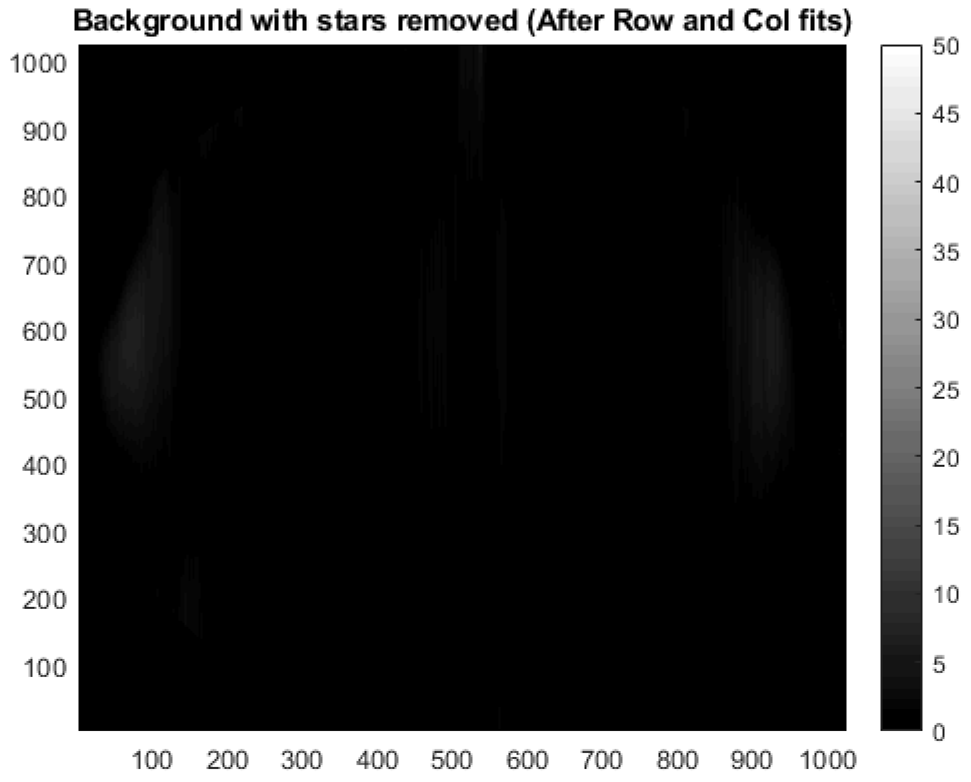
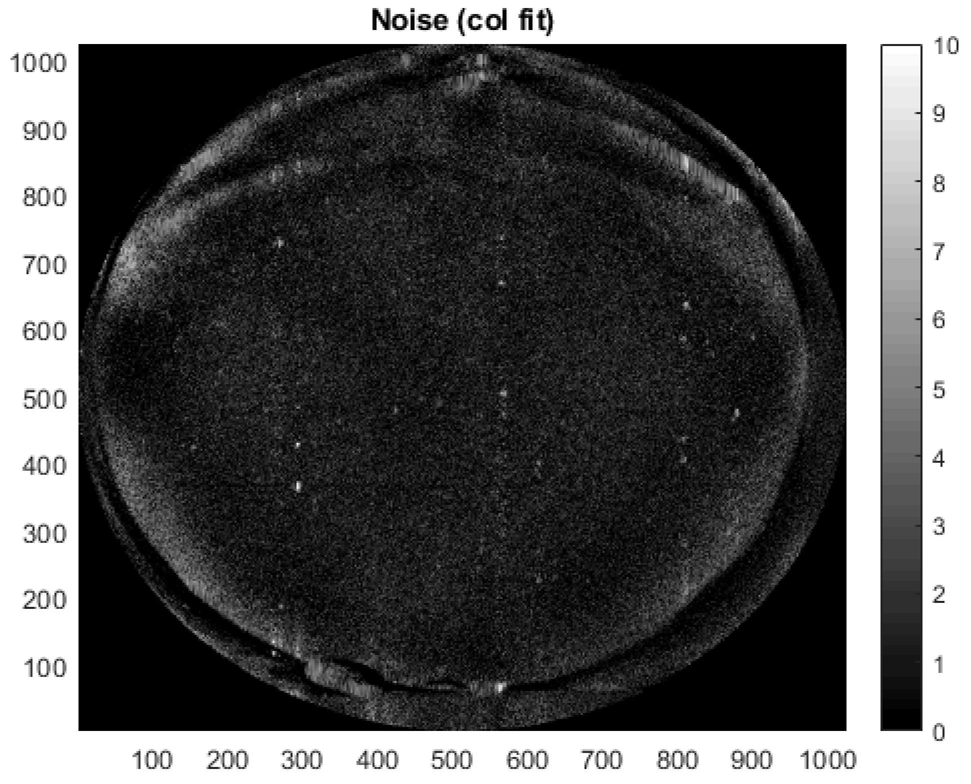


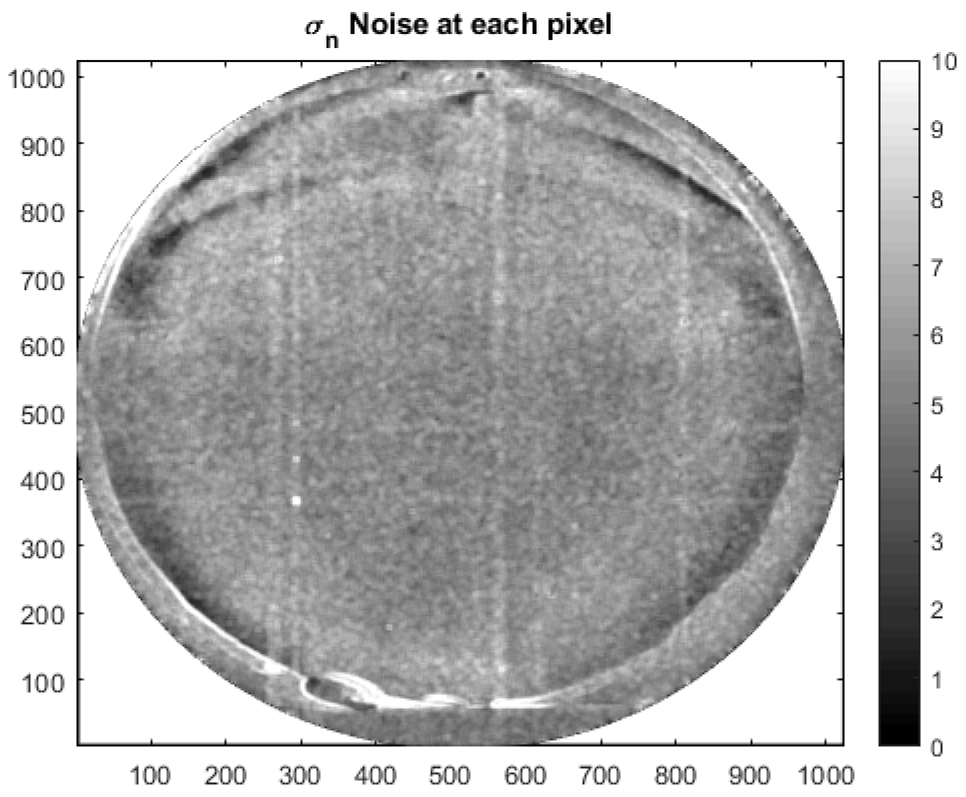
Image with background removed from row and column
1000
900
800
700
600
500
400
300
200
100
100 200 300 400 500 600 700 800 900 1000
100 90 80 70 60 50 40 30 20 10 0


Background with stars removed (After Row and Col fits)
1000
900
800
700
600
500
400
300
200
100
100
200
300
400
500
600
700
800
900
1000
50
45
40
35
30
25
20
15
10
5
0


Noise (col fit)
1000
900
800
700
600
500
400
300
200
100
100
200
300
400
500
600
700
800
900
1000
10
9
8
7
6
5
4
3
2
1
0

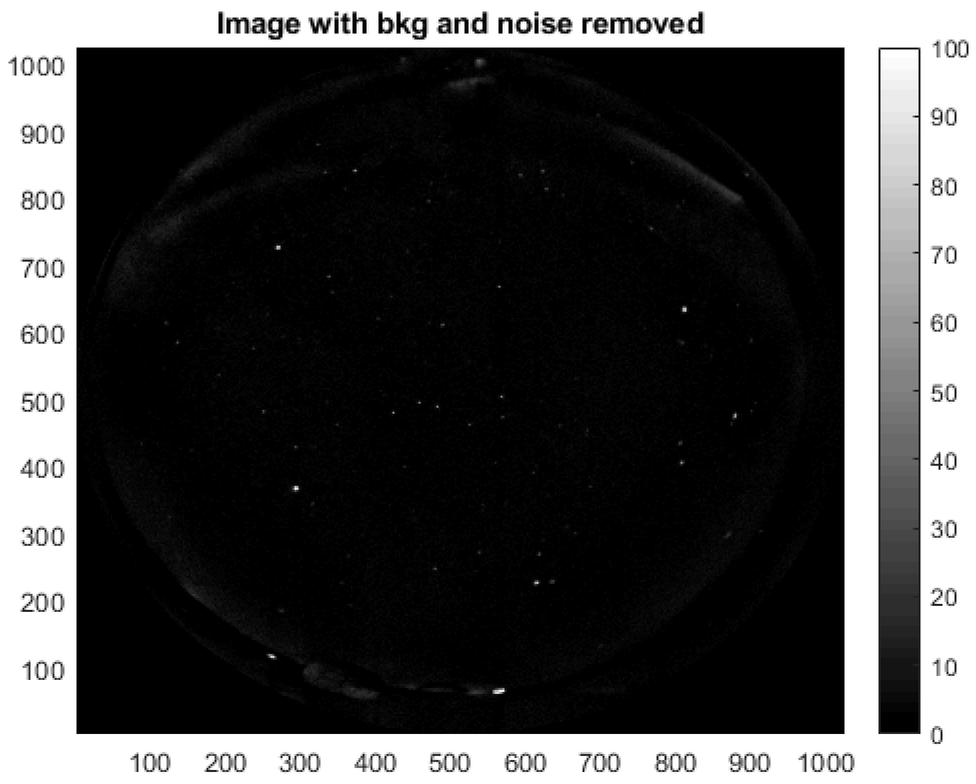
Step 4.3. Calculate noise at each pixel

```
fnoise = @(x) nanstd(x(:));
totalNoise = imColNoise+imRowNoise;
totalNoise(totalNoise==0)=nan;
sigma_n = nlfilter(totalNoise,[9 9],fnoise); % calculating std
 deviation from neighbouring pixels!
display_image(toggle, sigma_n, [0 10], '\sigma_n Noise at each
 pixel');
```



Step 4.4. Removing noise spikes

```
image1NoiseRem = remove_noise_spikes(image1BkgRem, sigma_n);
display_image(toggle, image1NoiseRem, [0 100], 'Image with bkg and
 noise removed');
```

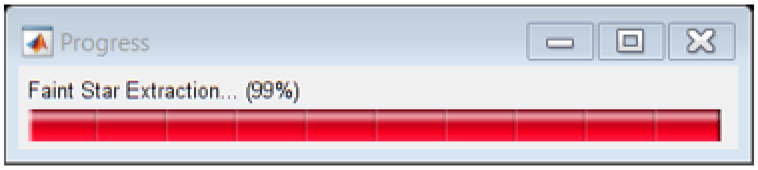


Step 4.5. Removing hot pixels See step 4.1

```
image1BkgRem(logical(hotPixels(:)))= nan;
```

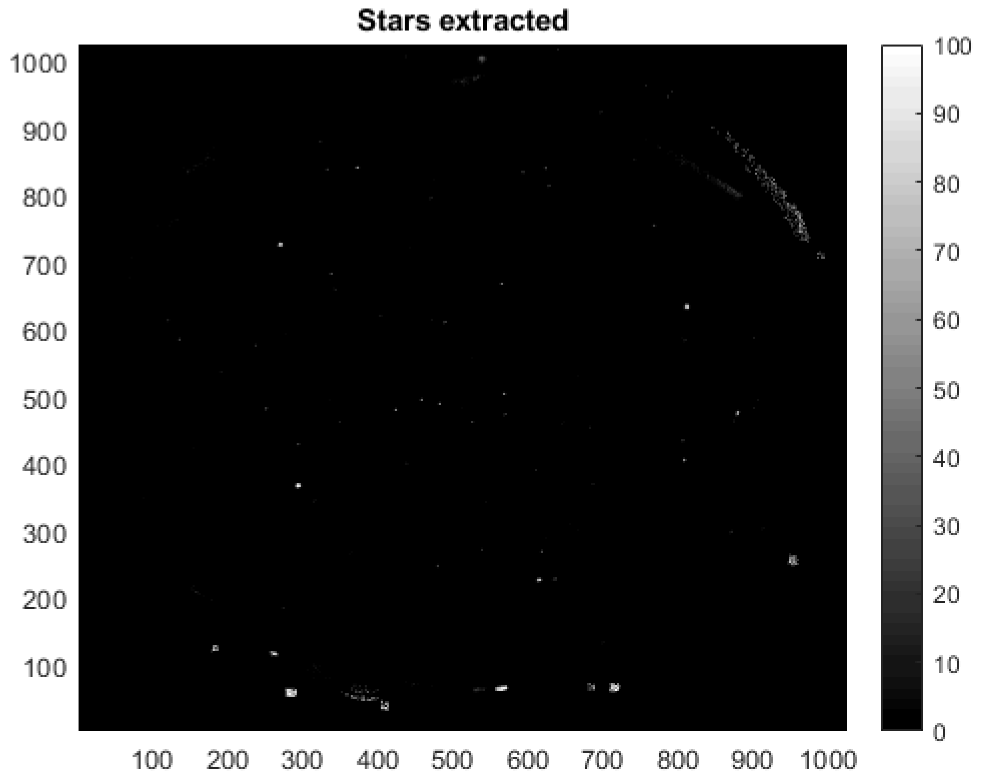
Step 5: Extract stars

```
starImage = faint_star_extracter(image1BkgRem, sigma_n);
starImage(starImage <= 20) = 0;
```



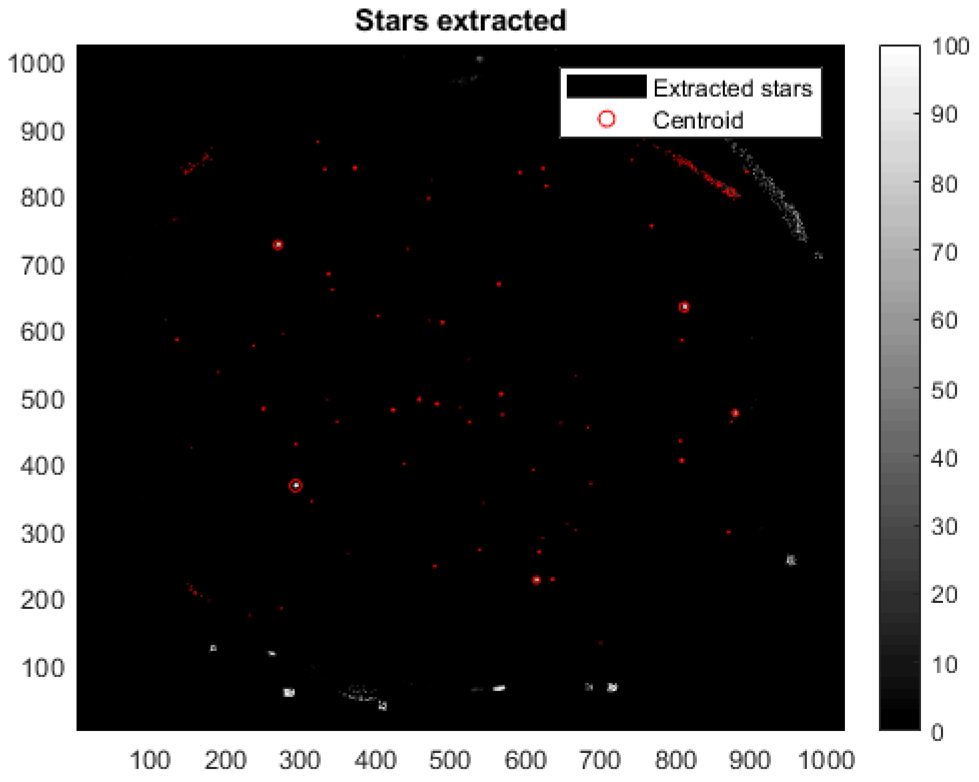
Faint Star Extraction... (99%)

```
display_image(toggle, starImage, [0 100], 'Stars extracted');
```



Step 5.1. Extract stars

```
imstarStruct = extract_stars(starImage);
dascstar = filter_stars(imstarStruct, 22.5); % remove points in the
 corners of the image
if toggle == 1
    hold on;
    scatter(dascstar.location(:,1),
 dascstar.location(:,2),20*dascstar.brightness, 'r');
    legend('Extracted stars', 'Centroid');
end
```



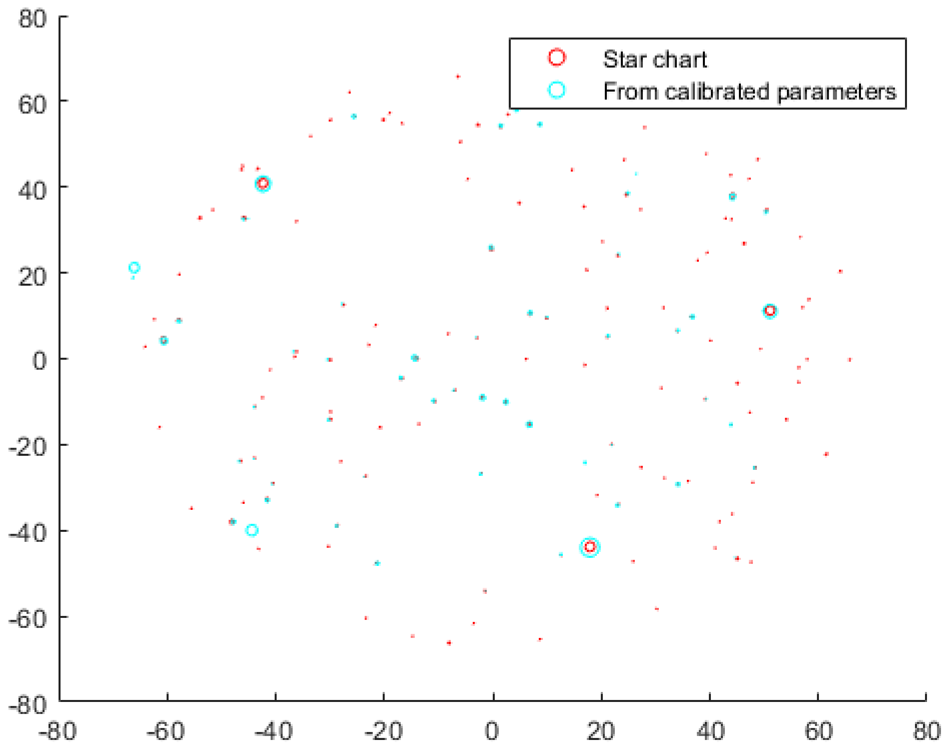
Step 5.2. Get real stars in the above format

```
realstar = get_actual_stars(stars, 22.5, 4, 0, 0, 0, 1);
```

Step 6: Calibrate stars from camera with stars from the star chart

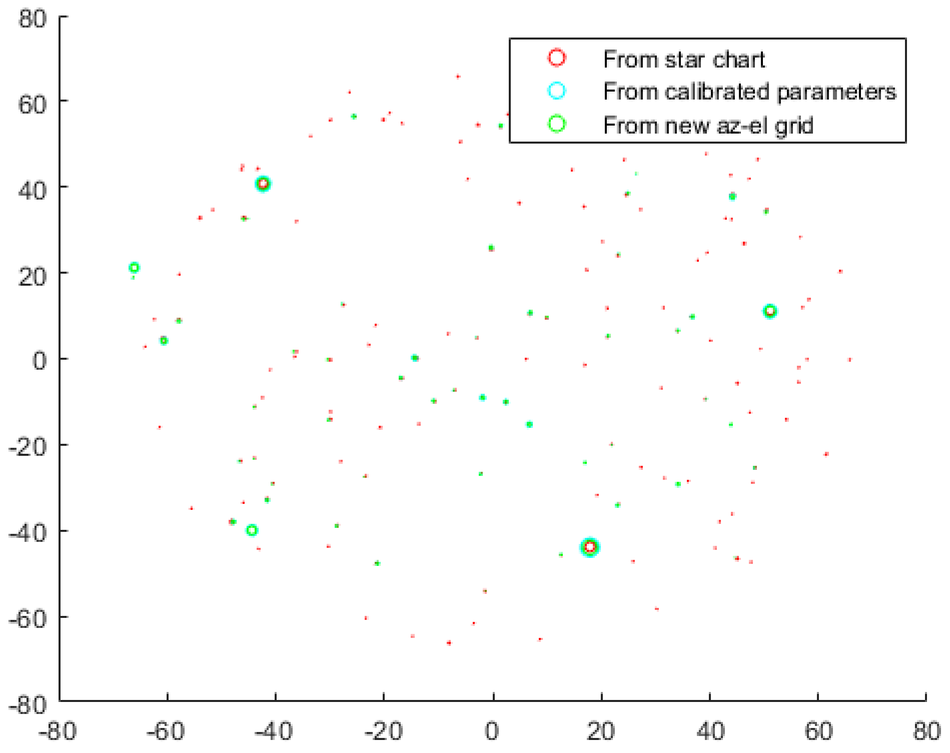
```
[dascstarCal,calPar,fval,acc] =
 calibrate_stars(realstar,dascstar,dasc.az, dasc.el);

if toggle == 1
    figure;
    plot_aer_stars(realstar.locationAzEl(:,1),
 realstar.locationAzEl(:,2),...
           realstar.brightness*50, 'r', 0, 0, 0, 1, 0);
    hold on;
    plot_aer_stars(dascstarCal.locationAzEl(:,1),
 dascstarCal.locationAzEl(:,2),...
           dascstarCal.brightness*50, 'c',...
           calPar(1), calPar(2), calPar(3), calPar(4), calPar(5),
 calPar(6));
    legend('Star chart','From calibrated parameters');
end
```



Step 6.1: Transform the stars identified from image to new Az El values

```
[dascStarAz, dascStarEl] =
 calculate_new_AzEl(dascstarCal.locationAzEl(:,1),...
    dascstarCal.locationAzEl(:,2),calPar);
if toggle == 1
    hold on;
    plot_aer_stars(dascStarAz, dascStarEl,
 dascstarCal.brightness*30, 'g', 0, 0, 0, 1);
    legend('From star chart','From calibrated parameters','From new
 az-el grid');
end
```



Step 7: Rotate the initial Az-El stencil according to the above calibrated parameters

```
[dasc.azCal, dasc.elCal] = calculate_new_AzEl(dasc.az,dasc.el,calPar);

if toggle == 1
    indx = dasc.elCal>0;
    h = figure;
    resize_figure(h,300,300);
    dsign = -1;
    p(1) = plot_DASC_aer(image1(indx), dasc.azCal(indx),
 dasc.elCal(indx), 1024, dsign);
    colorbar;
    colormap('viridis');
    xlim([-120,+120]);
    ylim([-120,+120]);
    hold on;
    p(2) = plot_aer_stars(realstar.locationAzEl(:,1),
 realstar.locationAzEl(:,2),...
        realstar.brightness*80, 'c', 0, 0, 0, dsign);
    hold on;
    p(3) = plot_aer_stars(dascStarAz, dascStarEl,
 dascstarCal.brightness*50, 'r', 0, 0, 0, dsign);
```

```
    hold on;
    plot_grid_aer([0, 90], 22.5, 'm');
    caxis([300 450]);

    plot_star_names(realstar, 8, 'w', 0, 0, 0, dsign);
    legend([p(1), p(2), p(3)], 'Calibrated image','Star chart','Stars
 from calibrated grid');
    title(timeStr);
    accuracy = (median(min(pdist2([dascStarAz,dascStarEl],...
        realstar.locationAzEl(1:length(dascStarAz),:)))));
    text(-90,-90,['Accuracy : ~',...
        num2str(accuracy,2),'°']);
end
```

Functions

```
function [totalIntensity,timeArr]=estimate_darkest_frame(h5FileStr)

asi = permute(h5read(h5FileStr,'/DASC/ASI'),[3 2 1]);
timeArr = unixtime2matlab((h5read(h5FileStr,'/DASC/time'))');
totalIntensity = sum(sum(asi,3),2);

end

function display_image(toggle,image,clim,titleStr)

if toggle==1

    if nargin<4
        titleStr = '';
    end

    figure;
    h=pcolor(image);
    set(h,'EdgeColor','none');
    colorbar;
    colormap(get_colormap('k','w'))
    title(titleStr);

    if ~(nargin<3) && ~isempty(clim)
        caxis(clim);
    end
end

end

function [hotPixels] = identify_hot_pixels(image1, image2, threshold)

if nargin<3
    threshold = 2;
end

temp = image1 - image2;
```

```
temp2 = temp;
hotPixels=zeros(size(temp2));
hotPixels(abs(temp2)<=threshold) = 1;
end

function [ASINew, background, ASINoise, pRow, muRow, a] =
 remove_background(ASI, nPoly)

% Remove background along the row

if nargin < 2
    nPoly = 3;
end

% ASINew, background
rowIndx = 1:1:size(ASI,2);
colIndx = 1:1:size(ASI,1);
ASINew = zeros(size(ASI));
background = zeros(size(ASI));
ASItemp = ASI;
ASINoise = zeros(size(ASI));
pRow = zeros([length(rowIndx),nPoly+1]);
% First iteration
for ifit = 1:2
    for i = rowIndx
        lchord = sqrt(512.^2-(abs(512-i)).^2);
        fitRangeIndx =512-round(lchord)+1:1:512+round(lchord);
        x = colIndx(fitRangeIndx);
        y = ASItemp(i,fitRangeIndx);
        if length(fitRangeIndx)>10
            pRow(i,:)=polyfit(x,y,nPoly);
        end
        muRow(i,:)=mean(y);
        stdRow(i,:) = std(y);
        a(i).fitRangeIndx = fitRangeIndx;
        background(i,fitRangeIndx) =
 polyval(pRow(i,:),colIndx(fitRangeIndx));
        if ifit==1
            brightStarIndx = ASItemp(i,:) >
 (background(i,:)+1*stdRow(i,:));
            if ~isempty(find(brightStarIndx)>0)
                ASItemp(i,brightStarIndx) = nan;
                ASItemp(i,fitRangeIndx) =
 interp_nans(ASItemp(i,fitRangeIndx)')';
            end
        else
            ASINew(i,fitRangeIndx) = ASI(i,fitRangeIndx)-
background(i,fitRangeIndx);
            ASINoise(i,fitRangeIndx) = ASItemp(i,fitRangeIndx)-
background(i,fitRangeIndx);
        end

    end
end
```

```
end

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```

```
function ASI = remove_noise_spikes(ASI, sigma_n)

for i=3:1:size(ASI,1) - 2
    for j = 3:1:size(ASI,2) - 2
        A = ASI(i,j);
        B1 = ASI(i,j-1);    B2 = ASI(i,j-2);
        C1 = ASI(i-1,j);    C2 = ASI(i-2,j);
        D1 = ASI(i,j+1);    D2 = ASI(i,j+2);
        E1 = ASI(i+1,j);    E2 = ASI(i+2,j);
        s = sigma_n(i,j);
        singleSpike = (A > 2*s)*(B1 < 2*s)*(C1 < 2*s)*(D1 < 2*s)*(E1 <
 2*s);
```

```
            doubleSpike(1) = (A > 3*s)*((B1>2*s)*(B2<2*s))*...
                not((C1>2*s))*not((D1>2*s))*...
                not((E1>2*s));
            doubleSpike(2) = (A > 3*s)*not((B1>2*s))*...
                ((C1>2*s)*(C2<2*s))*not((D1>2*s))*...
                not((E1>2*s));
            doubleSpike(3) = (A > 3*s)*not((B1>2*s))*...
                not((C1>2*s))*((D1>2*s)*(D2<2*s))*...
                not((E1>2*s));
            doubleSpike(4) = (A > 3*s)*not((B1>2*s))*...
                not((C1>2*s))*not((D1>2*s))*...
                ((E1>2*s)*(E2<2*s));
            ASI(i,j) = not(singleSpike).*A;
            ASI(i,j) = not(sum(doubleSpike)).*A;
            ASI(i,j-1) = not(doubleSpike(1)).*B1;
            ASI(i-1,j) = not(doubleSpike(2)).*C1;
            ASI(i,j+1) = not(doubleSpike(3)).*D1;
            ASI(i+1,j) = not(doubleSpike(4)).*E1;
        end
    end


    end

    function [starImage] = faint_star_extracter(ASI, sigma_n)

    mSz = 7;
    MSz = 9;
    dSz = (MSz-mSz)/2;
    if mod(dSz,1)
        error('mSz-MSz has to be even');
    end

    starImage = zeros(size(ASI));

    multiWaitbar('Faint Star Extraction...',0);
    id = 1./size(ASI,1);
    % For faint stars
    for i=1:1:size(ASI,1) - MSz
        for j = 1:1:size(ASI,2) - MSz
            M = ASI(i:i+MSz-1,j:j+MSz-1);
            in = M(1+dSz:dSz+mSz,1+dSz:dSz+mSz);
            out = M;
            out(1+dSz:dSz+mSz,1+dSz:dSz+mSz)=0;
            sig_n = sigma_n(i+dSz+ceil(mSz/2),j+dSz+ceil(mSz/2));
            mu_in = nanmean(in(:));
            mu_out = nanmean(out(:));
            % Condition
            if mu_in > 1*sig_n && mu_out < 2*sig_n
                starImage(i:i+MSz-1,j:j+MSz-1) = M;
            end

        end
        multiWaitbar('Faint Star Extraction...','Increment',id);
```

```
end

end

function imstar = extract_stars(image)
% Image should be post all processing
binaryImage = zeros(size(image));
binaryImage(image>0)=1;
[labelImage, numSpots] = bwlabel(binaryImage);
props =
 regionprops(labelImage,image,'Centroid','Area','MeanIntensity');
for i =1:1:numSpots
    imstar.ID(i,1) = i;
    imstar.location(i,:) = props(i).Centroid;
    imstar.brightness(i,1) = props(i).Area.*props(i).MeanIntensity;
end
imstar.brightness = imstar.brightness./max(imstar.brightness); %
 Relative magnitude
imstar.size = size(image);
end

function [newstar, I] = filter_stars(imstar, elMax, astrometryFileStr)
% Function sorts stars according to brightness, and defines a FoV of
% interest.

% Input
% imstar: A structure of star extracted from image
% elMax : Stars below this elevation will not be considered
% astrometryFileStr : A text file written in the format necessary
%                     for astrometry web utility: http://
nova.astrometry.net/upload

% Output
% newstar: A structure with stars sorted according to intensity
% I      : Sorting index

if nargin<3
    astrometryFileStr = []; % File containing text that can uploaded
 to astrometry
end
% Restricting the field of view.
FOV  = (90-elMax)*2;
% Assuming fish eye
imLength = imstar.size(1);
LengthperElevation = imLength/180;
p.min = round(imLength/2) - round(LengthperElevation*FOV/2);
p.max = round(imLength/2) + round(LengthperElevation*FOV/2);

selectedStarIndx =(imstar.location(:,1)>p.min &...
    imstar.location(:,1)<p.max & ...
    imstar.location(:,2)>p.min & ...
    imstar.location(:,2)<p.max);

newstar.location = imstar.location(selectedStarIndx,:);
newstar.brightness = imstar.brightness(selectedStarIndx)';

% Sorting the stars based on its magnitude.
[newstar, I] = sort_star(newstar);

if ~isempty(astrometryFileStr)
    dlmwrite(astrometryFileStr,round(newstar.location));
end

end

function [newstar, I] = sort_star(newstar)
% Function that sorts stars according to brightness
[newstar.brightness, I] = sort(newstar.brightness,'descend');
newstar.brightness = newstar.brightness';
newstar.location = newstar.location(I,:);
end

function realstar =
 get_actual_stars(stars,elCutOff,magCutOff,dx,dy,drot, dsign)
if nargin < 7
    dsign = 1;
end

starfilter=stars.vmag<magCutOff & stars.el>elCutOff;
[x,y] = get_aer_stars(stars.az(starfilter), stars.el(starfilter), dx,
 dy, drot, dsign);
realstar.location = [x, y]; %pixel location
realstar.brightness = stars.relIntensity(starfilter);
realstar.locationAzEl = [stars.az(starfilter), stars.el(starfilter)];
realstar.name = stars.name(starfilter);
[realstar, I] = sort_star(realstar); %s
realstar.locationAzEl = realstar.locationAzEl(I,:);
realstar.name = realstar.name(I);
end

function [x,y] = get_aer_stars(az, el, dx, dy, drot, dsign, dr, k, k0)
if nargin <9
    k0 = 0; % k0 is an unused parameter.
end
if nargin <8
    k = 0; % k is the distortion parameter
end
if nargin <7
    dr = 0; % Determines the field of view in the image
end
if nargin<6
    dsign = 1;
end
az = rotate_array(az,drot);

% r1 = (90-el);
r0 = (90-el);
k = 1+k.*10^-6;
```

```
r1 = (90.^((k-1)./k)).*r0.^(1./k);

r = r1 + dr.*r1;
x = dx + dsign.*((r).*sind(az));
y = dy + (r).*cosd(az);
end
```

```
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Calibration Function

See execution

```
function [dascstar,x,fval,accuracy] =
 calibrate_stars(realstar,dascstar,azOld,elOld)
dloc = round(dascstar.location);
dascstar.brightness = dascstar.brightness./max(dascstar.brightness);
lindx = sub2ind(size(azOld),dloc(:,2),dloc(:,1));
%                             rows(y)   cols(x)
dascstar.locationAzEl = [azOld(lindx), elOld(lindx)];
minElFilter = find(dascstar.locationAzEl(:,2)>=22.5);
dascstar.locationAzEl = dascstar.locationAzEl(minElFilter,:);
dascstar.brightness = dascstar.brightness(minElFilter);
dascstar.location = dascstar.location(minElFilter,:);
ndasc = length(dascstar.brightness);
starIndx = true(1,ndasc);

% dx, dy translation of center point
% drot - rotation along azimuth
% dr - is field of view (radius)
% k - radial distortion coefficient
%     dx   dy   drot    dr     k =0  k0
lb = [-10, -10, -180,  -0.1,    -100];
ub = [+10, +10, +180,  +0.1,    100];
nvars = 6;
options = optimoptions('ga');
%,'MaxGenerations',2000,'MaxStallGenerations',500
dsign = [-1, +1];
for k = 1:2
    [y(k,:),fval(k),exitflag] = ga(@starDistance,nvars,[],[],[],[],...
        lb,ub,[],options);
end

[~,minIndx] = min(fval);
x = [y(minIndx,1), y(minIndx,2), y(minIndx,3), dsign(minIndx),...
    y(minIndx,4), y(minIndx,5)];

% Removing planets and other objects not in the star database
```

```
[x2, y2] = get_aer_stars(dascstar.locationAzEl(:,1),...
    dascstar.locationAzEl(:,2),x(1),x(2),x(3),x(4),x(5),x(6));
D2 = pdist2([x2, y2], realstar.location(1:ndasc,:));
dmin2 = min(D2');
unmatchedObjects = dmin2 > 0.5; %Objects do not match if greater than
 1 deg off
nMatched = sum(~unmatchedObjects);
accuracy = median(dmin2);
if nMatched>10 && accuracy<1
    starIndx = ~unmatchedObjects;
    k = minIndx;
    [y2, fval(3), ~] = ga(@starDistance,nvars,[],[],[],[],...
        lb,ub,[],options);
    if fval(3)<fval(minIndx)
        x = [y2(1,1), y2(1,2), y2(1,3), dsign(minIndx), y2(1,4),
 y2(1,5)];
    end
else
    if nMatched<10
    disp(['Number of stars available should be more than 10. N = ',...
        num2str(nMatched),'. Redoing the calculation']);
    end
    if accuracy>1
        disp(['Accuracy is not good enough, it is ~ ',
 num2str(accuracy,2),...
            '. Redoing the calculation']);
    end
    [dascstar,x,fval] =
 calibrate_stars(realstar,dascstar,azOld,elOld);
end

    function dmin=starDistance(x)
        [x1,y1] = get_aer_stars(dascstar.locationAzEl(starIndx,1),...

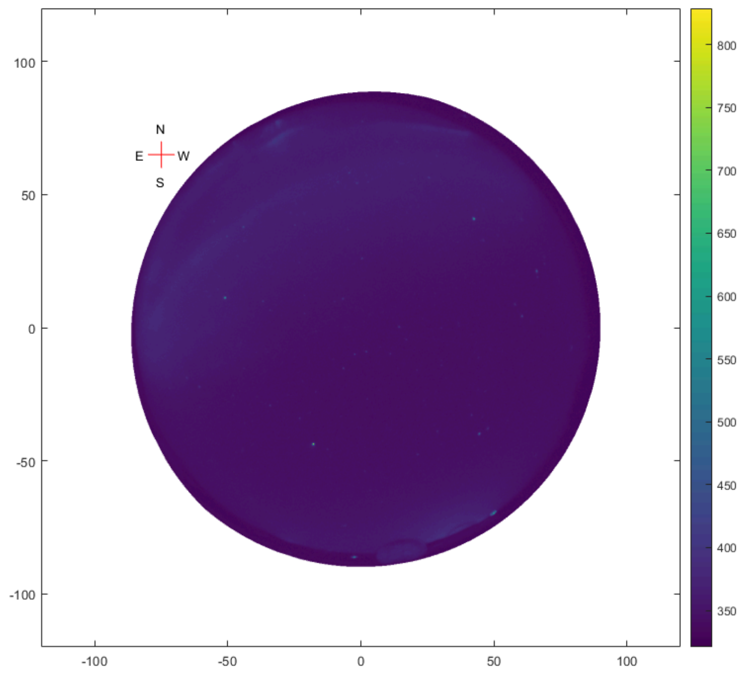
 dascstar.locationAzEl(starIndx,2),x(1),x(2),x(3),dsign(k),x(4));
        dascstar.newxy = [x1,y1];
        D =
 pdist2(dascstar.newxy,realstar.location(1:sum(starIndx),:));
        dmin = sum(min(D));
    end

end

function [azNew, elNew] = calculate_new_AzEl(azOld,elOld,x)

[xNew,yNew] =
 get_aer_stars(azOld,elOld,x(1),x(2),x(3),x(4),x(5),x(6));
azNew = wrapTo360(atan2d(xNew,yNew));
elNew = 90 - xNew./(sind(azNew));
indx = elNew<=0;
azNew(indx) = nan;
elNew(indx) = nan;

end
```

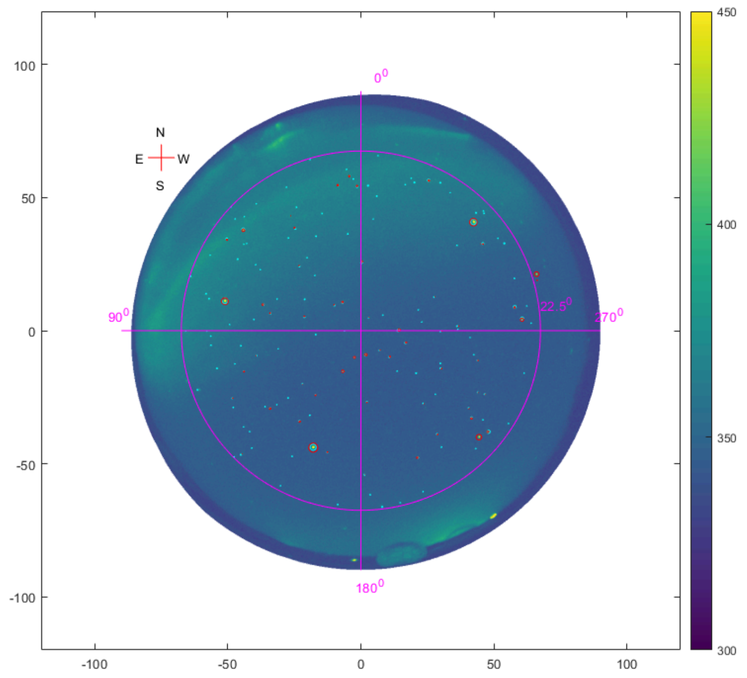


```
function p = plot_aer_stars(az,el,relIntensity,colorStr, dx, dy, drot,
 dsign, dr, k, k0)

if nargin<11
    k0 = 0; %radial distortion
end
if nargin<10
    k = 0; %radial distortion
end
if nargin<9
    dr = 0; % Extent of the radius/ FoV
end
if nargin<8
    dsign = 1;
end

[x,y] = get_aer_stars(az, el, dx, dy, drot, dsign, dr, k, k0);
p = scatter(x,y,relIntensity,colorStr);

end
```



```
function plot_star_names(sortedStars, n, color, dx, dy, drot ,dsign)

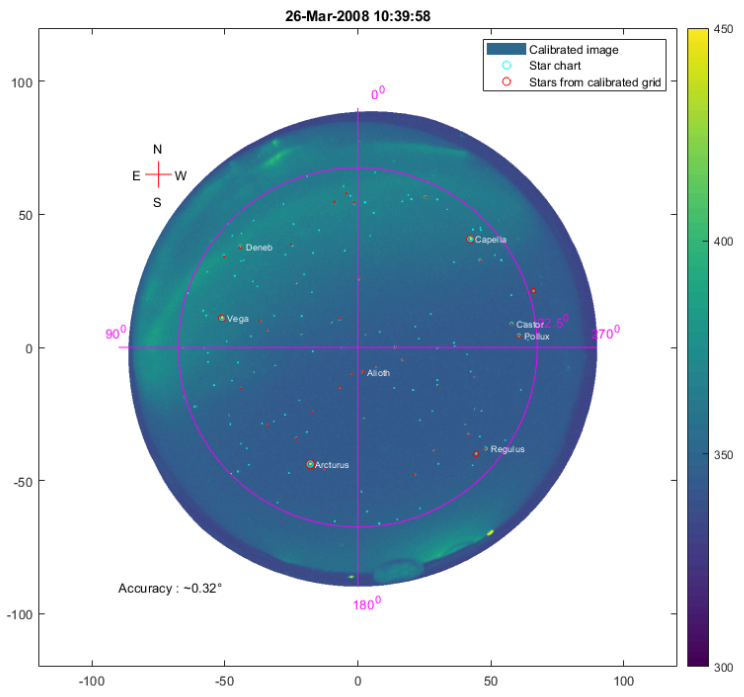
if nargin < 3 || isempty(color)
    color = 'c';
end
if nargin <2 || isempty(n)
    n = 5;
end

hold on;

starNames = string(extractBetween((sortedStars.name(1:1:n)),'(',')'));

for i = 1:1:n
    [x,y] = get_aer_stars(sortedStars.locationAzEl(i,1),
 sortedStars.locationAzEl(i,2),...
           dx,dy,drot,dsign);
    t=text(x,y,strcat("   ",starNames(i)));
    t.Color = color;
    t.FontSize = 7;
end

end
```



```
function [az, el] = get_AzEl_grid(imageSize)

x = linspace(-90,90,imageSize);
y = linspace(-90,90,imageSize);

[X, Y] = meshgrid(x,y);

az = wrapTo360(atan2d(X,Y));
el = 90 - X./(sind(az));

indx = el<=0;
az(indx) = nan;
el(indx) = nan;

end
```

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