Measuring The Darkness Of The Night Sky.

Choose the size that will best suit your age or ability group.

Having a couple of copies of each may suit best.

Pages 2-6 are for **larger booklets.**

Pages 7-11 are for **mini ones**

Step 1 Print out the Following pages onto printable **Acetates.**

Pages 2-5 are for **larger booklets.**

Pages 7-10 are for **mini ones**

Step 2 Print the Cover pages, on white card, or paper. The plain white page ill be the back.

Page 6 Cover for **larger booklets.**

Page 11 are for **mini ones**

Step 3 Cut along the Dotted Lines

Step 4 Using a paper punch punch holes in the left hand margin

Step 5 Arrange the pages as follows (Front Cover, <7.5 mag, <6.5 mag, <5.5 mag, <4.5 mag, <3.5, <3.5, <1.5, <0.5, back cover)

Step 6 Feed a key ring through each hole. The pages must move easily to enable them to flip over each other.

To use the booklet

Take a look at the night sky.

Find Hercules. Using a Star wheel may help, or Stellarium in night mode on a tablet or smartphone, at https://stellarium-web.org/

Open the booklet at a page you think matches the pattern in you sky, keeping the white back cover behind the pages.

Now turn a page forward or backwards over your open page to see is it more like what you see in the sky.

Next keep your chosen page to the right and turn all other pages to the left hand side.

Hold the booklet up the the sky and see if you have reached an accurate choice of magnitude.

If you are not happy, exchange this open page with one before or after it until you are satisfied.

To record your results as an international citizen scientist, open www.Globeatnight.org and in put your findings, along with other information such as weather condition etc.

The following images are taken from Globe at Night https://app.globeatnight.org/?constellation=hercules

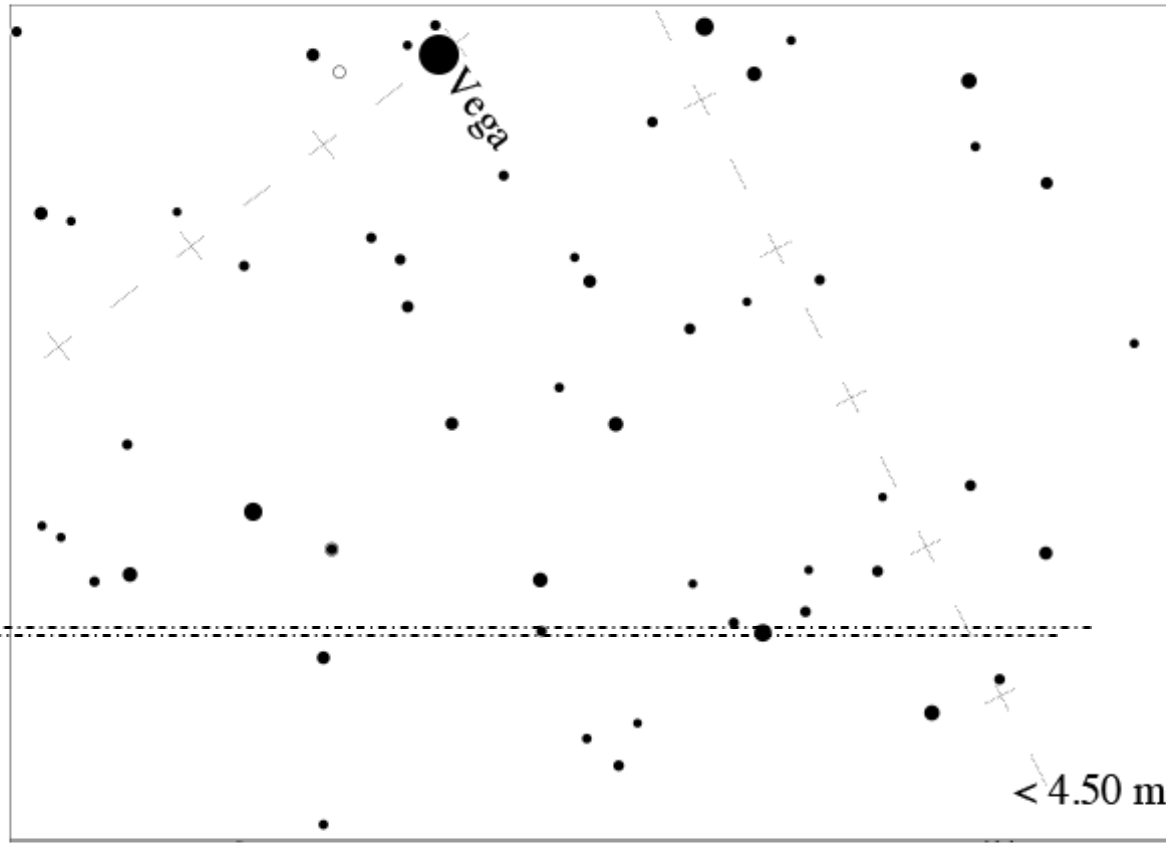
with the intension of being used teach children how to recognise and record how dark their night sky is.

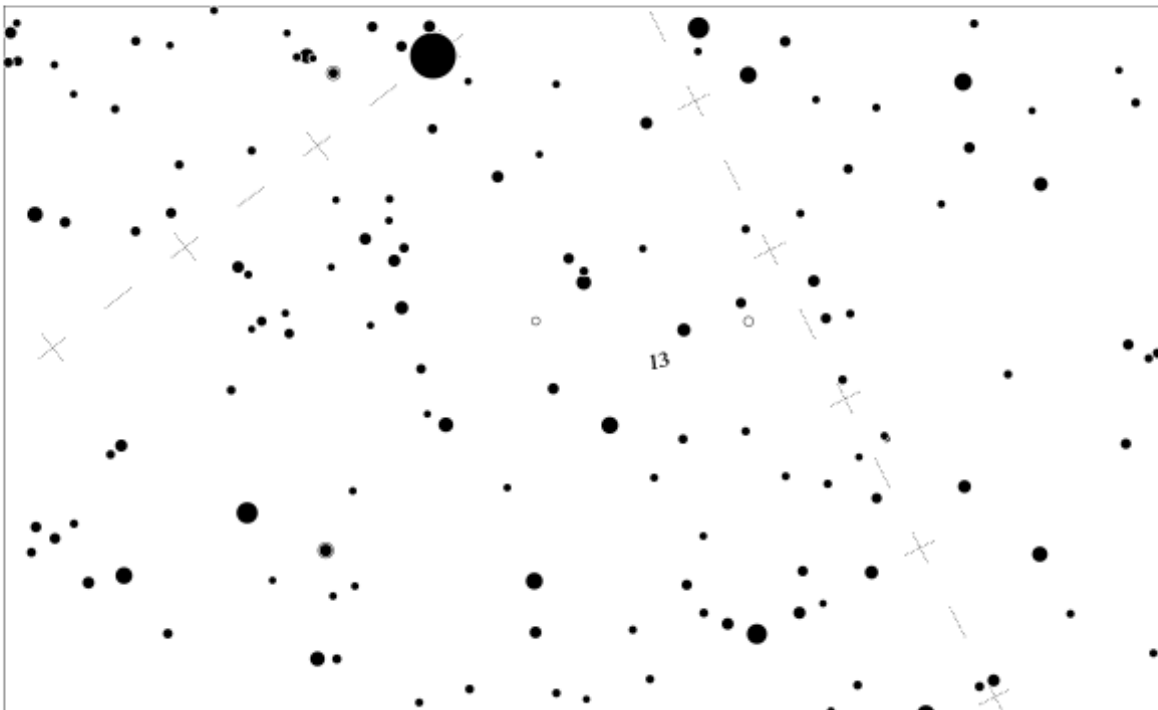
≤0.50 mag
Arcturus
Vega

≤1.50 mag
Arcturus
Vega
Deneb
Altair

< 1.50 mag
Arcturus
Vega
Deneb
Altair

< 3.50 mag
Big Dipper
Arcturus
Vega
Deneb
Altair

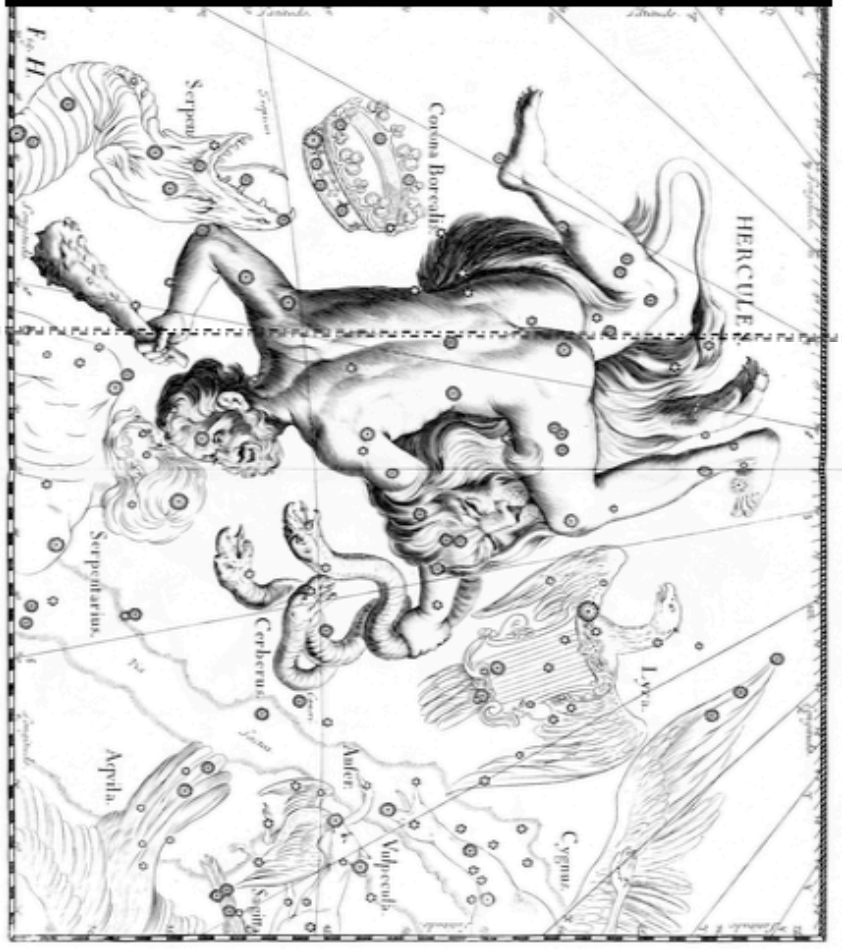

Vega
< 4.50 m

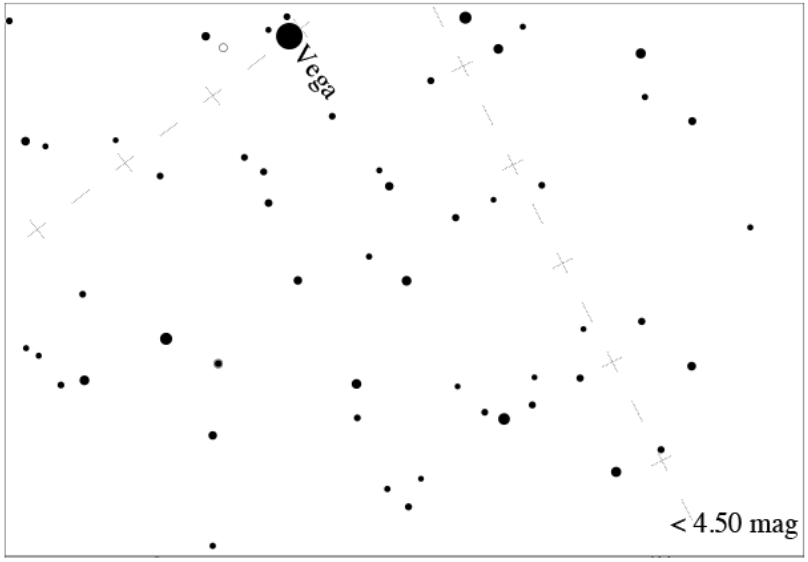

13

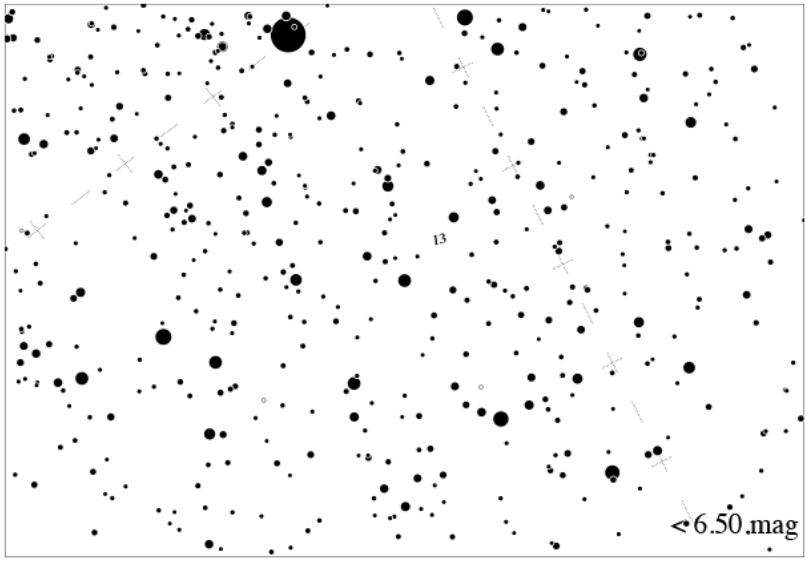
How DARK is YOUR sky?

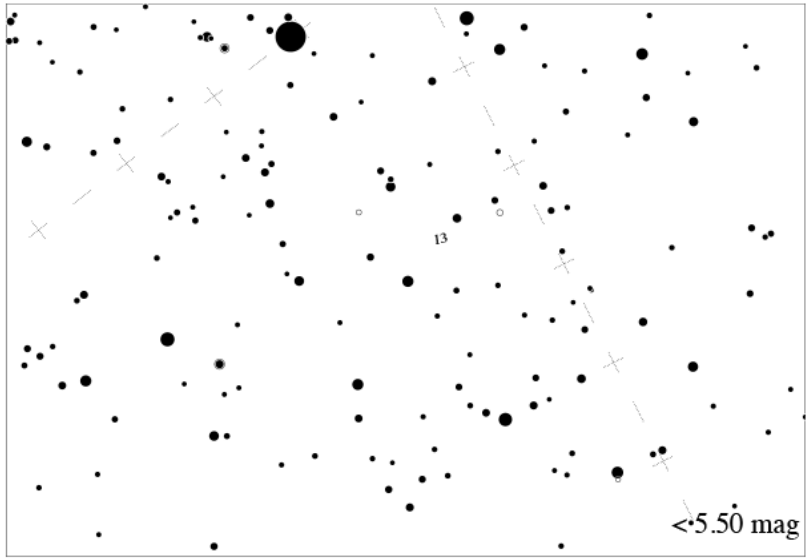
Record your readings at

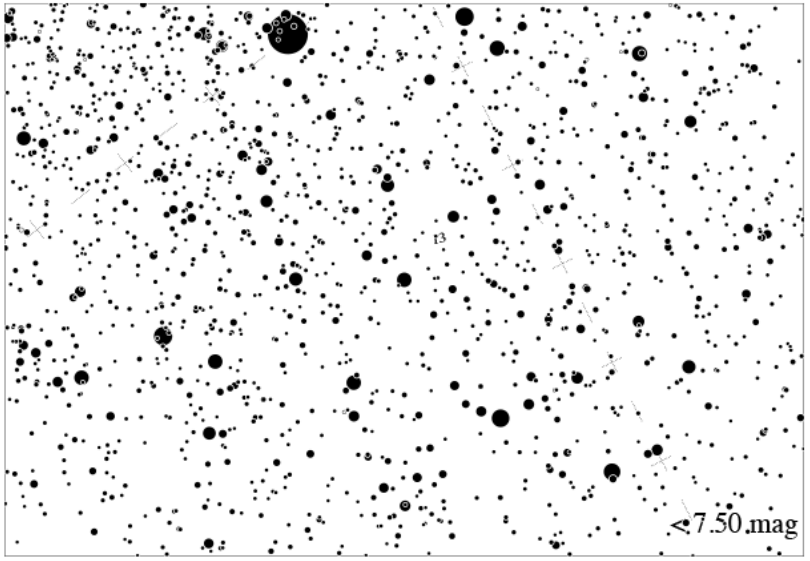
www.Globeatnight.org




Vega
< 4.50 mag


13
< 6.50 mag


13
< 5.50 mag


13
< 7.50 mag

Vega
Arcturus
< 0.50 mag

Deneb
Altair
Vega
Arcturus
< 1.50 mag

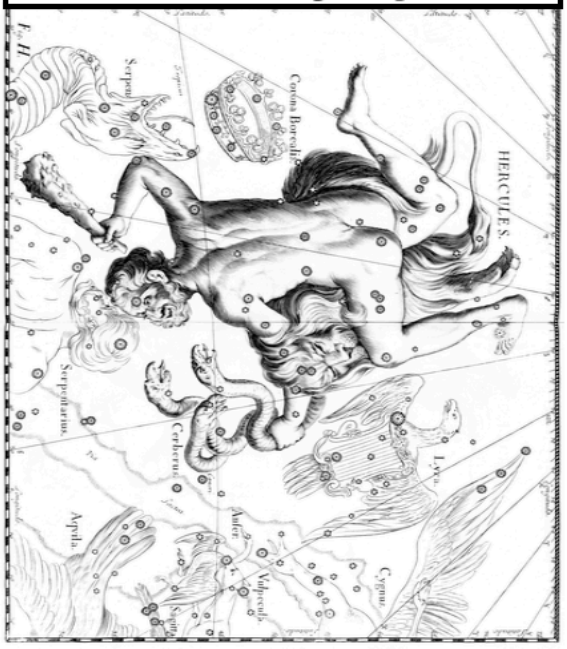
Deneb
Altair
Vega
Arcturus
< 1.50 mag

Deneb
Altair
Vega
Big Dipper
Arcturus
< 3.50 mag

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