Let's take part in 2 Global Initiatives that look at light pollution: "Globe at Night" & "Earth Hour".

Globe at Night

Introduction

Globe at Night is a world-wide science campaign to observe and record the magnitude of visible stars as a means of measuring light pollution in a given location.

Step 1 – Find the longitude and latitude
of the site of your observation. Use www.streetmaps.co.za to find your address or exact location or Google Earth or www.itouchmap.com/latlong.html or your GPS if you happen to have one.

Step 2 – Find Orion (a prominent constellation) in the north-western sky
by going outside an hour after sunset, about 20:30 – 22:00 local time, on any day between 3 and 12 March 2013. Allow your eyes to get used to the dark for about 20 minutes before you make your observation. Compare what (how many stars of Orion and his surrounds) you see to the different charts given on the reverse side of this page. To preserve your night vision use a red light while writing down your observation. (You can make a cheap red light by covering a flashlight with a brown paper bag or red cellophane; secure the bag with a rubber band.)

Step 3 – Record you observation
Decide which of the magnitude charts on the pack of this page is closest to your observation. Mark it clearly and complete all the other information asked for.

Step 4 – Report your observation
at http://www.globeatnight.org/webapp/ Or bring this sheet with you on 25 March so that you can do it at Sci-Enza.

Take part in Earth hour on Saturday 23 March 2013

Switch off your light for 1 hour on Saturday 31 March from 20:30 till 21:30. Think of something YOU can do to get your friends, family and/or community involved in Earth Hour.

For more information go the Earth Hour web site: www.earthhour.org/

DO IT! Then tell us about it on 13 April 2013. If you can, take a photo (cityscape or landscape) of the area at about 20:15, again at 20:45 and a last one at 21:30. Upload your photos onto your blog.

Date: _____ March 2013

Observation Time: ____:____ PM local time (HH:MM)

Name:

_____

Comments on location: (e.g. There is a street light within 50 m that is shielded from my view.)

_____

_____

Latitude (in deg/min/sec or decimal degrees):	Longitude (in deg/min/sec or decimal degrees):
_____ deg ____min_____sec or _____ _____ decimal degrees (South)	_____deg ____min_____sec or _____ decimal degrees (East)

Country: South Africa

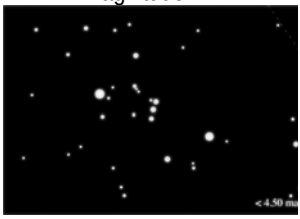
Weather conditions: _____

Find Orion by going outside an hour after sunset (about 7-10pm local time). Match your night time sky to one of our magnitude charts:

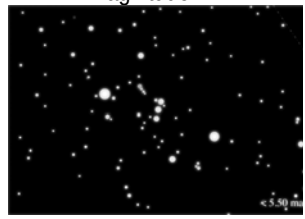
Magnitude 1

Magnitude 2

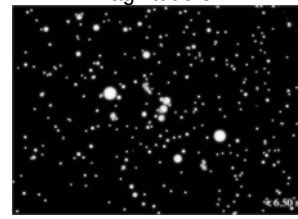
Magnitude 3



Magnitude 4



Magnitude 5



Magnitude 6