

The Sky at Night

The Moore Winter Marathon - Observing Form (Naked Eye/Binocular, items 1-25)

Thanks for taking part in the Sky at Night's Winter Moore Marathon challenge. We would like you to tell us which of our selected objects you've managed to find. If you've managed to grab any images, then you can share them via our Flickr group at www.flickr.com/groups/bbcskyatnight

Please print the form, then write in as much information as you can about the objects, sky conditions and equipment used. For your results to be included in the programme, please return the form to us by the end of January at the latest to...

The Sky at Night Moore Winter Marathon,
BBC Bristol, Whiteladies Road,
Bristol, BS8 2LR

The observing guide for these objects and the telescope observing form is available from www.bbc.co.uk/skyatnight.

We will not pass your email address or phone number on to anyone else.

Your name:

Address:

Phone number:

Email address:

Filling out the form is easy...

Write your comments here

1	Pleiades cluster in Taurus	Rating - Easy	Best seen with - Naked Eye
Visibility - Up for most of the night			
Comments... <i>Looked absolutely stunning both with just my eyes and also through binoculars! A real favourite!!</i>			
Seen it <input checked="" type="checkbox"/>	Date <i>12 / 11 / 12</i>	Time <i>22:00</i>	Equipment <i>Eyes & 10x50 bins</i>

Tick this box when you've seen the subject

Enter the date you saw it here

Enter the time you saw it here (use GMT)

Tell us what you saw it with here

The visibility guidelines for each entry have been compiled assuming you're located in the UK and are correct for November 2012 to January 2013.

1 Pleiades cluster in TaurusRating - *Easy*Best seen with - *Naked Eye*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**2 Hyades cluster in Taurus (Caldwell 41)**Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**3 Triangulum Galaxy (M33)**Rating - *Hard*Best seen with - *Binoculars*Visibility - *Up for a large part of the night Nov-Dec, best viewed just after darkness falls during Jan*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**4 Messier 35 cluster in Gemini**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**5 Beehive Cluster (M44), in Cancer**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Up for a good part of the night but need to view close to midnight during Nov*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**6 Messier 67 - cluster in Cancer**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Up for a good part of the night but need to view close to midnight during Nov*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment

7 JupiterRating - *Easy*Best seen with - *Naked Eye*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**8 Messier 36 - cluster in Auriga**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**9 Messier 37 - cluster in Auriga**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**10 Messier 38 - cluster in Auriga**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Up for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**11 Messier 41 - cluster in Canis Major**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Nov best seen 01:00-04:00, Dec - best seen 23:00-02:00, Jan best seen 21:00-midnight*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**12 Messier 50 - cluster in Monoceros**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Nov best seen 02:00-05:00, Dec best seen midnight-03:00, Jan best seen 22:00-01:00*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment

13 The Celestial 'G'Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Nov best seen 21:00-05:00, Dec best seen 19:00-03:00, Jan best seen 18:00-01:00*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**14 Messier 34 in Perseus**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Nov - well placed all night, Dec-Jan best seen after night falls*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**15 Alpha Persei Moving Cluster**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Nov - well placed all night, Dec-Jan best seen after night falls*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**16 Theta Tauri - double star**Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Visible for most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**17 Kemble's Cascade, Camelopardalis**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Nov - well placed all night, Dec-Jan best seen after night falls*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**18 Double Cluster, Perseus (Caldwell 14)**Rating - *Easy*Best seen with - *Binoculars*Visibility - *Nov - well placed all night, Dec-Jan best seen after night falls*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment

19 Fornax (constellation)Rating - *Hard*Best seen with - *Naked Eye*Visibility - *Needs to be viewed when due south, see Observing Guide for best timings Nov-Jan*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**20 The Pi's of Orion**Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Nov best seen 23:00-04:00, Dec best seen 21:00-02:00, Jan best seen 19:00-midnight*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**21 Messier 48, cluster in Hydra**Rating - *Medium*Best seen with - *Binoculars*Visibility - *Nov best seen 03:00-05:00, Dec best seen 01:00-03:00, Jan best seen 23:00-01:00*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**22 Orion's Sword**Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Nov best seen 23:00-04:00, Dec best seen 21:00-02:00, Jan best seen 19:00-midnight*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**23 Lambda Tauri - variable star**Rating - *Easy*Best seen with - *Naked Eye*Visibility - *Visible most of the night*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**24 M93, open cluster in Puppis**Rating - *Hard*Best seen with - *Binoculars*Visibility - *Nov best seen 23:00-04:00, Dec best seen 21:00-02:00, Jan best seen 19:00-midnight*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment

25 Orion's Belt (Collinder 70 cluster)Rating - *Easy*Best seen with - *N/Eye & Binoculars*Visibility - *Nov best seen 23:00-04:00, Dec best seen 21:00-02:00, Jan best seen 19:00-midnight*

Comments...

Seen it Date dd / mm / yy Time hh : mm Equipment**Some Notes about observing The Moore Winter Marathon objects...**

The objects listed here are for viewing with the naked eye or binoculars. We've indicated which is which against each entry. Don't worry if you're not that familiar with astronomy and feel a bit daunted. A helpful guide will be made available on our bbc.co.uk/skyatnight web page. This explains how to find each object in simple, everyday language and, where appropriate, will give you a starchart to help you on your way.

We've chosen some obvious favourites for the marathon such as Orion's Sword (that's item number 22). However, we want to show you some new things too so look out for some of the less well known entries.

If you want to have a go, it's best to find a dark site, away from any stray lights. Give yourself a while to get properly dark adapted. Ideally, 20 minutes in darkness will get your eyes sensitive to the dark.

It can get very cold out on a winter's night so it's essential to wrap up nice and warm, especially if you're going to be standing around for a while.

The Moon will interfere with the view when it's up. You'll find the period from November 8-19 should be relatively Moon-free, as will the period between December 8-19 and January 7-19. At other times you may have to dodge the Moon's glare.

The Moon's phases (Nov-Jan) are as follows:

Last quarter (Nov 7)
New Moon (Nov 13)
First quarter (Nov 20)
Full Moon (Nov 28)
Last quarter (Dec 6)
New Moon (Dec 13)
First quarter (Dec 20)
Full Moon (Dec 28)
Last quarter (Jan 5)
New Moon (Jan 11)
First quarter (Jan 18)
Full Moon (Jan 27)
Last quarter (Feb 03)

Observing when there's a full Moon in the sky can be tricky. The best views are to be had around the new Moon.

Good luck and clear skies!