## Sky at Night 55

## Moore Marathon - Detailed Observing Form...

Thanks for taking part in the Sky at Night's Moore Marathon - our 55th anniversary challenge. We would like you to tell us which of our 55 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 24th April, to...

## Moore Marathon, BBC Birmingham, The Mailbox, Birmingham, B1 1RF

There's a QUICK summary version of this form available via our bbc.co.uk/skyatnight webpage.

This can be downloaded, completed and emailed back to us at **skyatnight@bbc.co.uk** 

We will only use your details to contact you about the Sky at Night's 55th anniversary, and will not pass your email address or phone number on to anyone else.

	and will	not pass your end	all address (	or priorie riumber	on to anyo	ine else.	
Your name:							
Address:							
				Phone number	:		
				Email address:			
Filling out t	he form is	easy	Write y	our comments he	ere		
1	The Moon			Rating - Easy	В	est seen with	- Naked Eye
Visit	oility - 1-9 April	l before midnight BST	, 10-17 April	h the early hours, 2	2-30 April vi	sible as the sky	y darkens
Com	ments £	ooked enormo	us, ristn	g over the sev	a!		
				/			
Seei	n it 🔽 Date	061 04112 Tir	ne 9:20	Equipment Ju	st my ey	es.	
	1		_				
Tick th	is box	Enter the date	Enter the	time	Tell us wha	at vou	
when you	ı've seen	you saw it			saw it w	•	
the su	ubject	here	(use BS	T)	here		

If you need help finding any of the objects listed, an observing guide will be available via the Sky at Night website (www.bbc.co.uk/skyatnight) from mid-March. The visibility guidelines for each entry have been compiled assuming you're located in the UK and are correct for April 2012.

## The Moore Marathon starts here - good luck and clear skies...

1 The Moon	Rating - Easy	Best seen with - Naked Eye
Visibility - 1-9 April before midnight, 10-17 early hours	s, <b>22-30</b> early evening (progr	ramme deadline 24th April)
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	

2 The Plough (part of the Great Bear)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
3 Polaris (star)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible all night long		_,,,
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
4 Cassiopeia (constellation)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
5 Regulus & Sickle (part of Leo)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible as the sky darkens		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Fauinment	
Securit   Just Salvininining films		
6 Mars (planet - currently in Leo)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible as the sky darkens	raing Lasy	Boot Goon William Mariou Lyo
Comments		
- Comments		
_		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
7 Venus (planet)	Rating - Easy	Best seen with - Naked Eye
Visibility - visible after sunset in the west/northwest		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	

8 Earthshine	Rating - Easy	Best seen with - Naked Eye			
Visibility - before sunrise 16-19 April, after sunset 2	2-25 April (programme s	ubmission deadline 24th April)			
Comments					
Seen it Date dd / mm / yy Time hh : mr	n <b>Fauinment</b>				
Seen R Date da i iiii i yy i iii i iii	- Ечиринент				
9 Belt of Venus	Rating - Easy	Best seen with - Naked Eye			
Visibility - just before sunrise or after sunset along to		•			
Comments	ine opposite nonzon to ti	ie dan a location			
Comments					
Seen it Date dd I mm I yy Time hh: mr	n Equipment				
10 Spica (brightest star in Virgo)	Rating - Easy	Best seen with - Naked Eye			
Visibility - all night, rising in the southeast as darkne	ess falls				
Comments					
Seen it Date dd / mm / yy Time hh : mr	m <b>Equipment</b>				
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11 Saturn (planet - currently in Virgo)	Rating - Easy	Best seen with - Naked Eye			
Visibility - all night, rising in the southeast as darkne	ess falls	·			
Comments					
Seen it Date dd I mm I yy Time hh: mr	m Equipment				
12 Mare Crisium	Rating - Easy	Best seen with - Naked Eye			
Visibility - 1-9 April and 24-30 April (programme sub	bmission deadline 24th A	pril)			
Comments					
Seen it Date dd I mm I yy Time hh: mr	n Equipment				
13 Hyades (open cluster in Taurus)	Rating - Easy	Best seen with - Naked Eye			
Visibility - low in the west as the sky darkens, easie	er at the start of April				
Comments					
Soon it Date dd I mm I wy Time bh . ma	n Equipment				
Seen it Date dd I mm I yy Time hh: mr	□ Equipment				

14 Pleiades (open cluster in Taurus)	Rating - Easy	Best seen with - Naked Eye
Visibility - low in the west-northwest as the sky dark	ens, easier at the start of April	
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
15 International Space Station (ISS)	Rating - Medium	Best seen with - Naked Eye
Visibility - at various times from 1-26 April see obser	_	
Comments		,
2 11 D 4 dd / mana / m 2		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
10 A (15 - 1-1 O-1 - 11)	<b>5</b>	<b>D</b> 4 10 11 1 = 1
16 Artificial Satellite	Rating - Medium	Best seen with - Naked Eye
Visibility - at any time of night in clear, dark skies		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
17 Zubeneschamali (star in Libra)	Rating - Medium	Best seen with - Naked Eye
Visibility - visible low in the southeast around 11pm	BST, then up for the rest of the	night
Comments		
Seen it Date dd I mm I yy Time hh: mm	Fauinment	
Seem to Date Startman by Time the time	- Equipmont	
18 Cygnus (constellation)	Rating - Easy	Best seen with - Naked Eye
Visibility - east at 4am BST at the start of April or 1a		
Comments		
- Commence		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
19 Algol (variable star in Perseus)	Rating - Medium	Best seen with - Naked Eye
Visibility - low in the northwest at 10pm BST at the s	start of April, very low in the no	rth at the end of April
Comments		
Seen it Date dd / mm / vy Time hh: mm	Equipment	

20 Corona Borealis (constellation)	Rating - Medium	Best seen with - Naked Eye
Visibility - visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
21 55 Cancri (star in Cancer)	Rating - Medium	Best seen with - Naked Eye/Bins
Visibility - best seen before 1am BST	3	,
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
The Summer Triangle (asterism)	Rating - Easy	Best seen with - Naked Eye
Visibility - after 2am BST at the start of April, after m	idnight by the end of the	month
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
23 Antares (star in Scorpius)	Rating - Easy	Best seen with - Naked Eye
Visibility - after 2am BST at the start of April, after m	idnight by the end of the	month
Comments		
a " D Bata del Imm I vo Time le com	Fundament	
Seen it Date dd / mm / yy Time hh: mm	Equipment	
		Dod on with Make 45
The Teapot (asterism)	Rating - Medium	Best seen with - Naked Eye
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at	Rating - Medium	·
The Teapot (asterism)	Rating - Medium	·
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at	Rating - Medium	·
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at	Rating - Medium the start of April, low dov	·
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments	Rating - Medium the start of April, low dov	·
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments	Rating - Medium the start of April, low dov	·
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments  Seen it Date dd / mm / yy Time hh: mm	Rating - Medium  the start of April, low dov  Equipment  Rating - Medium	vn at 3:30am BST by the end
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments  Seen it Date dd / mm / yy Time hh: mm  25 Alphard (star in Hydra)	Rating - Medium  the start of April, low dov  Equipment  Rating - Medium	vn at 3:30am BST by the end
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments  Seen it Date dd / mm / yy Time hh: mm  25 Alphard (star in Hydra)  Visibility - visible for most of the night but does set in	Rating - Medium  the start of April, low dov  Equipment  Rating - Medium	vn at 3:30am BST by the end
24 The Teapot (asterism)  Visibility - rising in the south-southeast at 4:30am at Comments  Seen it Date dd I mm I yy Time hh: mm  25 Alphard (star in Hydra)  Visibility - visible for most of the night but does set in	Rating - Medium  the start of April, low dov  Equipment  Rating - Medium  the early hours	vn at 3:30am BST by the end

26 Coathanger Cluster (asterism)	Rating - Medium	Best seen with - Binoculars
Visibility - early morning		
Comments		
Seen it Date dd I mm I yy Time hh: mr	m Equipment	
27 Double Cluster (open clusters)	Rating - Easy	Best seen with - Binoculars
Visibility - low in the northern part of the sky but vis	ible all night long	
Comments		
Seen it Date dd I mm I yy Time hh: mr	n Equipment	
28 Cheshire Cat (asterism)	Rating - Hard	Best seen with - Binoculars
Visibility - best seen as soon as the sky darkens - g	ets harder towards the end	of the month
Comments		
Seen it Date dd I mm I yy Time hh: mr	n Equipment	
_		
29 Garnet Star (variable star)	Rating - Medium	Best seen with - Binoculars
Visibility - Visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mr	n Equipment	
_		
30 Tycho (lunar crater)	Rating - Easy	Best seen with - Binoculars
Visibility - 1-12 April		
Comments		
Seen it Date dd I mm I yy Time hh: mr	n Equipment	
31 Wild Duck Cluster (open cluster)	Rating - Medium	Best seen with - Binoculars
Visibility - best seen in the early hours before dawn	during April	
Comments		
Seen it Date dd I mm I yy Time hh: mr	n Equipment	

32 Dumbbell Nebula (planetary nebula)	Rating - Medium	Best seen with - Bins./Telescope
Visibility - best seen in the early hours before dawn	during April	
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
_		
33 Beehive Cluster (open cluster)	Rating - Easy	Best seen with - Binoculars
Visibility - best seen before 1am BST		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
34 Messier 13 (globular cluster)	Rating - Medium	Best seen with - Binoculars
Visibility - visible all night long	<b>3</b>	
Comments		
Coop if D Date dd I mm I vy Time bh I nam	- Farriam ant	
Seen it Date dd I mm I yy Time hh: mm	Equipment	
25 Mizor 9 Algor (double star)	Rating - Easy	Best seen with - Naked Eye/Bins.
		Dest seem with - Nanca Lyc/Dins.
35 Mizar & Alcor (double star)	rating - Lasy	,
Visibility - visible all night long	rating - Lasy	,
	ruing - Lasy	·
Visibility - visible all night long  Comments	• ,	·
Visibility - visible all night long	• ,	·
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm	Equipment	
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)	Equipment  Rating - Medium	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning	Equipment  Rating - Medium	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)	Equipment  Rating - Medium	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments	<b>Equipment Rating -</b> <i>Medium</i> gs of April 7th, 15th and	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning	<b>Equipment Rating -</b> <i>Medium</i> gs of April 7th, 15th and	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments  Seen it Date dd I mm I yy Time hh: mm	Equipment  Rating - Medium  gs of April 7th, 15th and  Equipment	Best seen with - Bins./Telescope April 23rd
Visibility - visible all night long  Comments  Seen it Date dd / mm / yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments  Seen it Date dd / mm / yy Time hh: mm	<b>Equipment Rating -</b> <i>Medium</i> gs of April 7th, 15th and	Best seen with - Bins./Telescope
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments  Seen it Date dd I mm I yy Time hh: mm  37 La Superba (very red star)  Visibility - visible all night long	Equipment  Rating - Medium  gs of April 7th, 15th and  Equipment	Best seen with - Bins./Telescope April 23rd
Visibility - visible all night long  Comments  Seen it Date dd / mm / yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments  Seen it Date dd / mm / yy Time hh: mm	Equipment  Rating - Medium  gs of April 7th, 15th and  Equipment	Best seen with - Bins./Telescope April 23rd
Visibility - visible all night long  Comments  Seen it Date dd I mm I yy Time hh: mm  36 Titan (moon of Saturn)  Visibility - all month, furthest from Saturn on morning  Comments  Seen it Date dd I mm I yy Time hh: mm  37 La Superba (very red star)  Visibility - visible all night long	Equipment  Rating - Medium  gs of April 7th, 15th and  Equipment	Best seen with - Bins./Telescope April 23rd

38 North Polar Cap of Mars	Rating - Medium	Best seen with - Telescope
Visibility - Mars is visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Fauinment	
Seen R Bute day hinty yy nime hin hin	Equipment	
39 Rings of Saturn	Rating - Easy	Best seen with - Telescope
Visibility - Saturn is visible all night long	3,	
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
	<b>-</b>	
40 Ring Nebula (planetary nebula)	Rating - Medium	Best seen with - Telescope
Visibility - best seen after midnight at the start of Apr	ril, or as the sky gets dark by the	e end of the month
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
41 Sombrero Galaxy (edge on galaxy)	Rating - Hard	Best seen with - Telescope
Visibility - visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Fauinment	
Seen R Date day Hill ryy Time Hill. Hill	Equipment	
42 lapetus (moon of Saturn)	Rating - hard	Best seen with - Telescope
Visibility - visible all month, furthest from the planet	•	·
Comments	on April 20th (Western Gongation	''
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
Whirlpool Galaxy (face on galaxy)	Rating - Medium	Best seen with - Telescope
Visibility - visible all night long		
Comments		

	Rating - Easy	Best seen with - Telescope
Visibility - Venus is visible during April in the evening	g twilight after sunset	
Comments		
Seen it Date dd / mm / yy Time hh : mn	- Equipment	
Seen it Date du Fillit yy Time III. IIII	Equipment	
45 Alpine Valley (lunar feature)	Rating - Easy	Best seen with - Telescope
45 Alpine Valley (lunar feature) Visibility - 1-12 April and 28-30 April (programme su		Dest seen with - relescope
Comments	ibiniission deadiine 24th April)	
Comments		
Seen it Date dd I mm I yy Time hh: mn	Equipment	
46 Clavius (lunar crater)	Rating - Easy	Best seen with - Telescope
Visibility - 1-13 April and 30 April (programme subm	ission deadline 24th April)	
Comments		
Seen it Date dd I mm I yy Time hh: mn	n Equipment	
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47 Artistarchus (lunar crater)	Rating - Easy	Best seen with - Telescope
Visibility - 3-16 April		
Comments		
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Comments		
	n Equipment	
Comments  Seen it Date dd / mm / yy Time hh: mn		Doct committee Tologogy
Comments  Seen it Date dd / mm / yy Time hh: mn  48 Plato (lunar crater)	Rating - Easy	Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su	Rating - Easy	Best seen with - Telescope
Comments  Seen it Date dd / mm / yy Time hh: mn  48 Plato (lunar crater)	Rating - Easy	Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su	Rating - Easy	Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su	Rating - Easy Ibmission deadline 24th April)	Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su Comments	Rating - Easy Ibmission deadline 24th April)	Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su Comments	Rating - Easy Ibmission deadline 24th April)	Best seen with - Telescope  Best seen with - Telescope
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su Comments  Seen it Date dd I mm I yy Time hh: mn	Rating - Easy ubmission deadline 24th April)  Equipment  Rating - Hard	
Comments  Seen it Date dd / mm / yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su Comments  Seen it Date dd / mm / yy Time hh: mn  49 Syrtis Major (dark feature on Mars)	Rating - Easy ubmission deadline 24th April)  Equipment  Rating - Hard	
Comments  Seen it Date dd I mm I yy Time hh: mn  48 Plato (lunar crater)  Visibility - 1-13 April and 29-30 April (programme su Comments  Seen it Date dd I mm I yy Time hh: mn  49 Syrtis Major (dark feature on Mars)  Visibility - 1-11 April around midnight BST, 12-17 April	Rating - Easy ubmission deadline 24th April)  Equipment  Rating - Hard	

50 Messier 81 & 82 (pair of galaxies)	Rating - Medium	Best seen with - Telescope
Visibility - visible all night long		
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
		D / W T/
51 Leo Triplet (trio of galaxies)	Rating - Hard	Best seen with - Telescope
Visibility - visible all night long		
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
52 Lagoon Nebula (emission nebula)	Rating - Medium	Best seen with - Bins./Telescope
Visibility - best seen just before the sky starts to brig	hten with the onset of d	awn in the early hours
Comments		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
Seen it Dute day initir yy nine ini. inii	Ечиртет	
53 Swan Nebula (emission nebula)	Rating - Hard	Best seen with - Telescope
Visibility - best seen just before the sky starts to brig	_	·
Comments	men wan are enset or a	awii iii alo cany noaro
Comments		
_		
Seen it Date dd I mm I yy Time hh: mm	Equipment	
_		
54 Messier 5 (globular cluster)	Rating - Hard	Best seen with - Telescope
Visibility - visible for much of the night		
Comments		
Seen it Date dd / mm / yy Time hh: mm	Equipment	
_		
55 Albireo (colourful double star)	Rating - Easy	Best seen with - Telescope
Visibility - rises at 11pm BST at the start of the mont		·
Comments	<b>5</b> -	, , , , , , , , , , , , , , , , , , ,
Seen it Date dd/mm/yy Time hh: mm		