

<b><u>Meeting Date</u></b>	April 13, 2025		
<b><u>Night Begins</u></b>	9:54 PM. EDT	<i>Note: Astronomical Twilight Ends</i>	
<b><u>Solar Noon / Midnight</u></b>	1:32 EDT	<i>Note: on Meeting Date</i>	
<b><u>Moon Quarters</u></b>	First 04/04, Full 04/12, Last 04/20, New 04/27		
<b><u>Darkest Evenings</u></b>	03/20 – 04/02	04/18 – 05/02	<i>Note: 2 days before Last thru 2 days before First</i>
<b><u>Viewing Resources</u></b>	Evening Sky Maps	<a href="http://skymaps.com/">http://skymaps.com/</a>	
	Astronomy Forecasts	<a href="https://clearoutside.com/forecast/42.82/-83.14">https://clearoutside.com/forecast/42.82/-83.14</a>	
		<a href="http://oaklandastronomy.net/ambient_RH.html">http://oaklandastronomy.net/ambient_RH.html</a>	
	Peter Birren's Deep-Sky Fieldbooks	<a href="http://www.birrendesign.com/astro.html">http://www.birrendesign.com/astro.html</a>	

**Featured Constellation: Coma Berenices**

A selection from Peter Birren's excellent deep-sky fieldbook, *"Objects in the Heavens"*, pages 74-75

CONSTELLATION	COMMON NAME	SEASON, ON MERIDIAN	ABBREVIATION
ITEM IDENTIFIER	TYPE DETAILS	☆☆ SEPARATION / SIZE RA DEC	MAG

## Coma Berenices    *Berenice's Hair*    Spring May 15    **COM**

*"A gathering of stars which obviously requires distance only to become a nebula to the naked eye. Sweeping poor, except nebulae."*

☆☆ 24		Spring Albireo; dim SG nearby	20.3"	12:36.1	18°16'	5/6.3
◯◯ M53 5024	GC	Brilliant, bright core, spokes	21.8'	13:13.9	18°04'	7.8
		60kLY; 1° NE of αCOM, NGC 5053 1° to north; 250,000☆				
		One of farthest GC from center of Milky Way				
◯◯ M64 4826	SG	Sa; <i>Black Eye Galaxy</i> ; smooth	10'x5'	12:57.7	21°35'	8.44
		"Magnificent large bright nebula blazing to a nucleus."				
		Look for dark patch NE of core; 17mLY				
○ M85 4382	SG	Ep/S0; part of Virgo Cluster	7'x5.4'	12:26.4	18°05'	9.13
		Bright core; mag10.9 NGC4394 in field to NE				
		<b>M88-M100 also mapped in Virgo</b>				
○ M88 4501	SG	! Sb; elongated; bright core	9'x4'	12:32.9	14°19'	9.6
		Best of VIR-COM Group in small scopes; 100kLY wide				
○ M91 4548	SG	SBb; very faint; long	5.5'x4'	12:36.4	14°23'	9.8
○ M98 4192	SG	Sb; elongated; bright core;	11'x3'	12:14.8	14°47'	10.0
○ M99 4254	SG	Sc; <i>Pinwheel Galaxy</i> ; difficult	5'x5'	12:19.8	14°18'	9.84
○ M100 4321	SG	Sc; round "glow"; 56mLY	6'x5.5'	12:23.9	15°43'	9.3
		Face-on; largest in VIR-COM group; mag11.7 NGC4312 in field to SW				
○ NGC4147	GC	Small; starlike outer nebulosity	6.3'	12:11.1	18°26'	10.0
○ NGC4251	SG	Sa; round; starlike nebulosity	2'x1'	12:19.1	28°04'	10.4
○ NGC4274	SG	Sb; NGC4278/83/86 in field	4'x2'	12:20.8	29°30'	10.4
○ NGC4278	EG	E1; in chain with NGC4283/86	4'	12:21.1	29°10'	10.0
○ NGC4293	SG	Sa/p; heavy dust lanes	6.2'x3.6'	12:22.2	18°16'	10.1

○ NGC4414	SG	Sc; flocculent*; starlike hub 2'x1.5'	12:27.4	31°07'	10.0
○ NGC4450	SG	Sb; round; distinct nucleus 5.5'x4'	12:29.5	16°59'	10.0
○ NGC4459	SG	S0; 2 mag12 galaxies nearby 4'x3'	12:29.9	13°52'	10.4
○ NGC4473	SG	E5; in Markarian's Chain VIR 4'x2.5'	12:30.8	13°19'	10.1
○ NGC4477	SG	SBa; bright part of M's Chain 3.7'x3'	12:31.0	13°32'	10.3
○ NGC4494	EG	E1; bright; round 4.5'x4.3'	12:32.4	25°40'	9.8
○ NGC4559	SG	Sc; very bright; edge-on; coarse 11'x5'	12:36.9	27°51'	9.8
○ NGC4565	SG	! Sb; <i>Needle Galaxy</i> 16'x3'	12:37.3	25°53'	9.3
		<i>Berenice's Hairclip</i> ; edge-on; 25MLY; Milky Way-sized			
○ NGC4725	SG	SBb; single arm; bright core 9.8'x7'	12:51.4	25°34'	9.2
○ NGC5053	GC	1° SE of M53; dim, loose 13.5'	13:17.4	17°36'	9.6
○○ Mel 111 OC		<i>Coma Star Cluster</i> 275'(4.5°)	12:26.0	26°00'	1.8
		37☆ to mag10.5; 3rd closest cluster at 250LY			
		Named for the Queen of Ptolemy III (246-221BC)			

Galaxy designations, p.20

Flocculent: without well-defined spiral arms

