

Meeting Date

November 10, 2024

Night Begins

6:51 PM. EST

Note: Astronomical Twilight Ends

Solar Noon / Midnight

12:16 EST

Note: on Meeting Date

Moon Quarters

New 11/01, First 11/09, Full 11/15, Last 11/22

Darkest Evenings

10/22 – 11/07 11/20 – 12/06

Note: 2 days before Last thru 2 days before First

Viewing Resources

Evening Sky Maps

<http://skymaps.com/>

Astronomy Forecasts

<https://clearoutside.com/forecast/42.82/-83.14>http://oaklandastronomy.net/ambient_RH.html

Peter Birren's Deep-Sky Fieldbooks

<http://www.birrendesign.com/astro.html>**Featured Constellation: Perseus**A selection from Peter Birren's excellent deep-sky fieldbook, *"Objects in the Heavens"*, pages 104-105

CONSTELLATION	COMMON NAME	SEASON, ON MERIDIAN	ABBREVIATION
ITEM IDENTIFIER	TYPE DETAILS	☆☆ SEPARATION / SIZE RA DEC	MAG
Perseus	<i>Andromeda's Rescuer</i>	Winter Dec 25	PER
<i>"Night after night the telescope might be employed in sweeping over its magnificent crowds of stars and many beautiful pairs."</i>			
☆ <i>Algol</i> β	Demon Star; var. 2.87 days	03:09.5 41°02'	2-3.4
☆☆ 45/Epsilon ε	Bluish-white/green	8.8" 03:59.2 40°04'	3/8.3
☆☆ <i>Miram</i> η	Reverse Albireo; gold/blue	28.3" 02:52.1 55°59'	4/8.5
☆☆ Σ331/HR890	White/blue-white	12.3" 03:02.4 52°26'	5/6.5
○○ M34 ₁₀₃₉	OC ! 80☆☆/☆☆ mag8+; bright	35' 02:43.4 42°50'	5.2
○ M76 ₆₅₀	PN <i>Little Dumbbell, Cork</i> ; irreg	3'x2' 01:43.6 51°40'	10.1
○ NGC744	OC Irregular shape	11' 02:00.0 55°34'	7.9
○○ NGC869	OC !! <i>Double Cluster, West</i> ; 7κLY	20' 02:20.4 57°12'	5.0
○○ NGC884	OC !! 350☆☆, 0.5° apart; <i>East</i>	20' 02:23.8 57°12'	6.1
○○ NGC957	OC 50☆☆/☆☆; long triangle; resolved	10' 02:34.8 57°38'	7.6
○○ NGC1023	EG E7p; lens-shaped; diffuse	9'x3' 02:41.6 39°07'	8.7
○ NGC1245	OC Rich; irregular; 200☆☆; 800LY	20' 03:16.1 47°18'	8.1
○ NGC1333	RN 60☆☆; active stellar nursery; 1κLY	9'x7' 03:30.5 31°29'	10.0
○○ NGC1342	OC 60☆☆; irregular EW chain	14' 03:32.9 37°26'	6.7
○○ NGC1444	OC 40☆☆ mag12-14, S ☆ chain	4' 03:50.9 52°43'	6.6
○ NGC1491	EN Small; faint; reddish mag11☆☆ 4'x4'	04:04.9 51°22'	10.0
○ NGC1496	OC Faint; 1☆☆ mag11; 10 others	4' 04:06.0 52°42'	9.6
○○ NGC1499	EN <i>California Neb</i> ; diffuse 2.4°x40'	04:02.0 36°40'	5.0
○ NGC1513	OC 40☆☆; very rich; compressed	19' 04:11.4 49°33'	8.4
○○ NGC1528	OC 80☆☆ mag 9-14; swirl-in-a-swirl	16' 04:16.9 51°15'	6.2
○○ NGC1545	OC 20☆☆ triangle; rich	18' 04:22.4 50°18'	6.2

○ NGC1579	E/R <i>Trifid of the North</i> ; bright	12'x8'	04:31.5	35°18'	9.9
○○ NGC1582	OC Rich at low power; 20☆	37'	04:33.0	43°46'	7.0
○ Stock 4	OC Mass of 100 faint ☆; large; loose	20'	01:54.1	57°01'	7.5
○○ Tr 2	OC 30☆; moderately rich	20'	02:38.3	55°59'	5.9
○ Basel 10	OC Assoc. of Double Cluster; 12☆	2'	02:20.9	58°23'	9.9
○ Cz 8	OC Half-ring around 1 bright ☆	6'	02:34.5	58°49'	9.7
○○ Mel 20	OC αPER moving cluster; ☆ chains	3°	03:25.7	49°55'	2.0
○ IC 348	C/N Surrounds oPER; bright RN	8'	03:45.8	32°13'	7.3
○ Berk 68	OC In rich field; curved strings	12'	04:45.9	42°06'	9.8
○ Ru 148	OC Pretty faint; small; loose	4'	04:47.9	44°46'	9.5