

2009 NOVEMBER-DECEMBER STARMAP

Date and Time:	
Early Nov:	10:00 P.M.
Late Nov:	9:00 P.M.
Early Dec:	8:00 P.M.
Late Dec:	7:00 P.M.

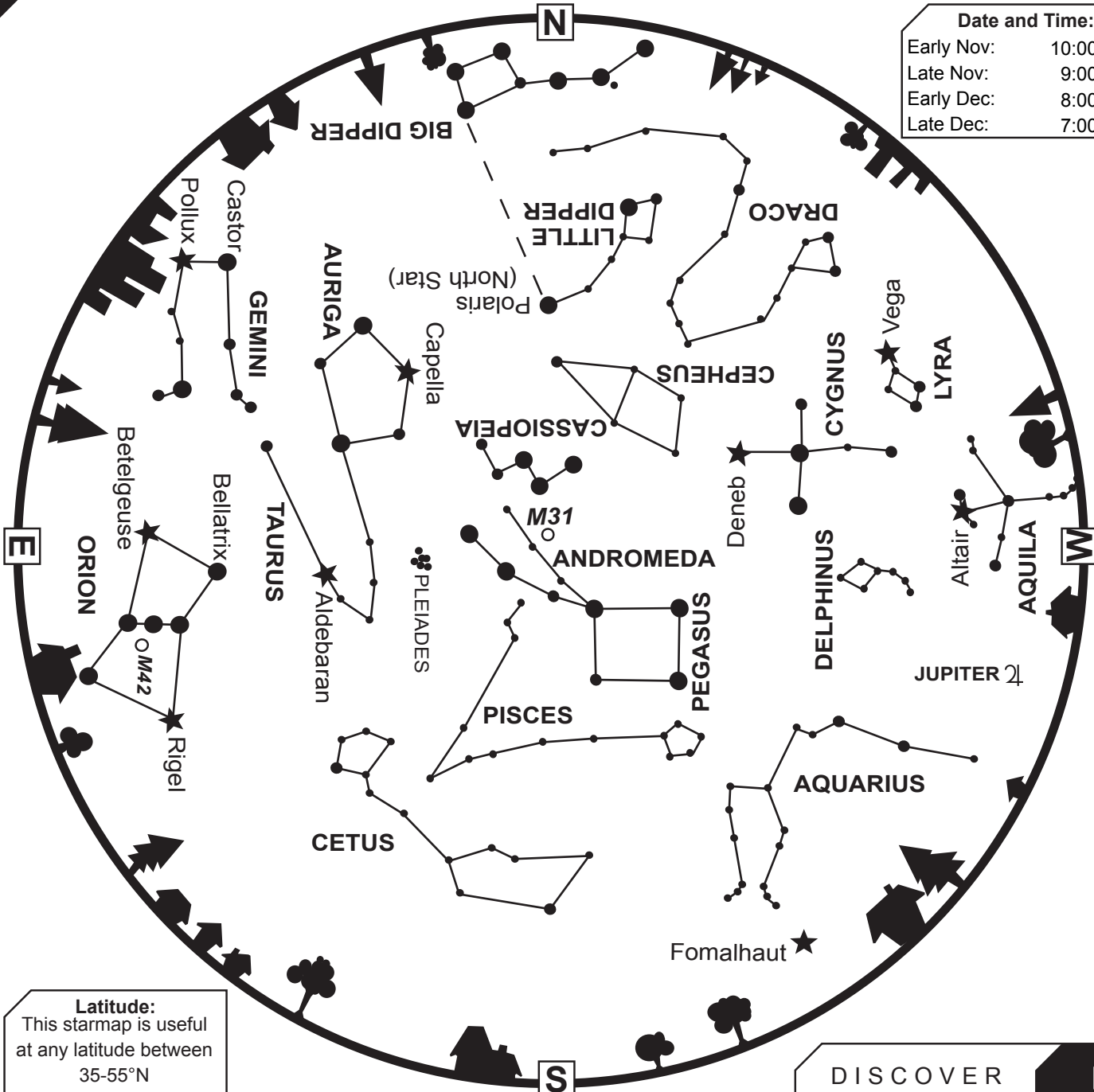
- How to Use This Map:**
1. Find North in the sky using the Big Dipper and the North Star.
 2. While facing North, hold the starmap straight in front of you with NORTH at the bottom.
 3. Look for the constellations in that area of the sky.
 4. When you want to look at other areas, always turn the map so that the direction you're facing is at the bottom of the map.

Key:

CONSTITUTION NAMES
 Star Names
 STAR GROUP NAMES
Deep Sky Object Designations
 Planet Names

★ 1st magnitude stars
 ● 2nd magnitude stars
 ● 3rd magnitude stars
 ● 4th magnitude stars
 ○ Deep sky objects:
 M31 - Andromeda Galaxy
 M42 - Orion Nebula

Planets:
 ♃ - Jupiter



Latitude:
 This starmap is useful
 at any latitude between
 35-55°N



The Wives Who Ate Onions

Once there were six wives. Every day their husbands would go off hunting, and they would leave the wives to gather vegetables and cook the meals.

One day, as they were out gathering vegetables the youngest wife found an onion growing. She took a bite and it was sweet and flavorful. She called her sisters to her, and they each took a bite. "Our husbands will love these!" they thought. They gathered as many as they could, and while they were gathering them they ate many more, and rubbed the onion juice on as perfume.

When their husbands returned the wives had horrible onion breath, and their husbands made them sleep outside. When the husbands left to go hunting the next day, they forbid their wives from eating any more onions.

Of course, the wives liked the onions so much that they went back that day and ate many onions. Once again, the husbands made them sleep outside. The wives decided this wasn't fair, so they climbed the tallest hill and jumped up into the stars. There they became a cluster of stars known as the Pleiades, danced in a circle and ate as many onions as they wanted.

The husbands were sorry to see them go, especially when they realized they had to make their own meals. They pleaded with their wives, asking them to come home, but the wives were happy living among the stars. Finally the husbands climbed up into the stars too and became another cluster of stars: the Hyades.

This story is attributed to the Western Mono Native Americans from California and has been retold by us.

The Pleiades

The Pleiades are a group of generally very young stars contained within a blue reflection nebula.

This is one of the most observable objects in the night sky, because it doesn't matter what type of observing equipment you have: your eyes, binoculars, or a telescope no matter what size.

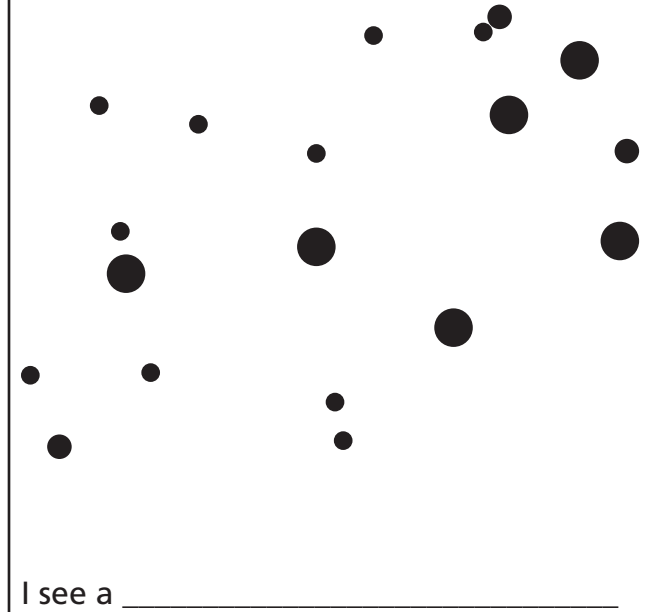
If you're watching with your eyes, count how many stars you can see. With a telescope, examine the nebula in more detail.

Picture (C) Antonio Fernandez-Sanchez



Dot-to-Dot

People all over the world see different patterns in this cluster of stars. What dot-to-dot picture can you make out of these stars?



Astronomy Internet Resources

Sky Information:

stardate.org/nightsky/weekly.php

UW Observatory:

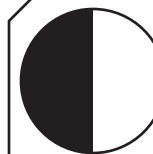
www.astro.washington.edu/groups/outreach/tjo/

Seattle-Area Astronomy Events:

www.seattleastro.org

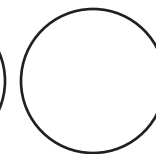
Advanced Astronomy Updates:

PacificScienceCenter.org/AstroInfo



First
Quarter

Nov 24
Dec 24



Full
Moon

Nov 2
Dec 2
Dec 31



Third
Quarter

Nov 9
Dec 9



New
Moon

Nov 16
Dec 16

DISCOVER

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