

2010 JANUARY-FEBRUARY STARMAP

Date and Time:

Early Jan:	11:00 P.M.
Late Jan:	10:00 P.M.
Early Feb:	9:00 P.M.
Late Feb:	8:00 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:

CONSTELLATION 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:

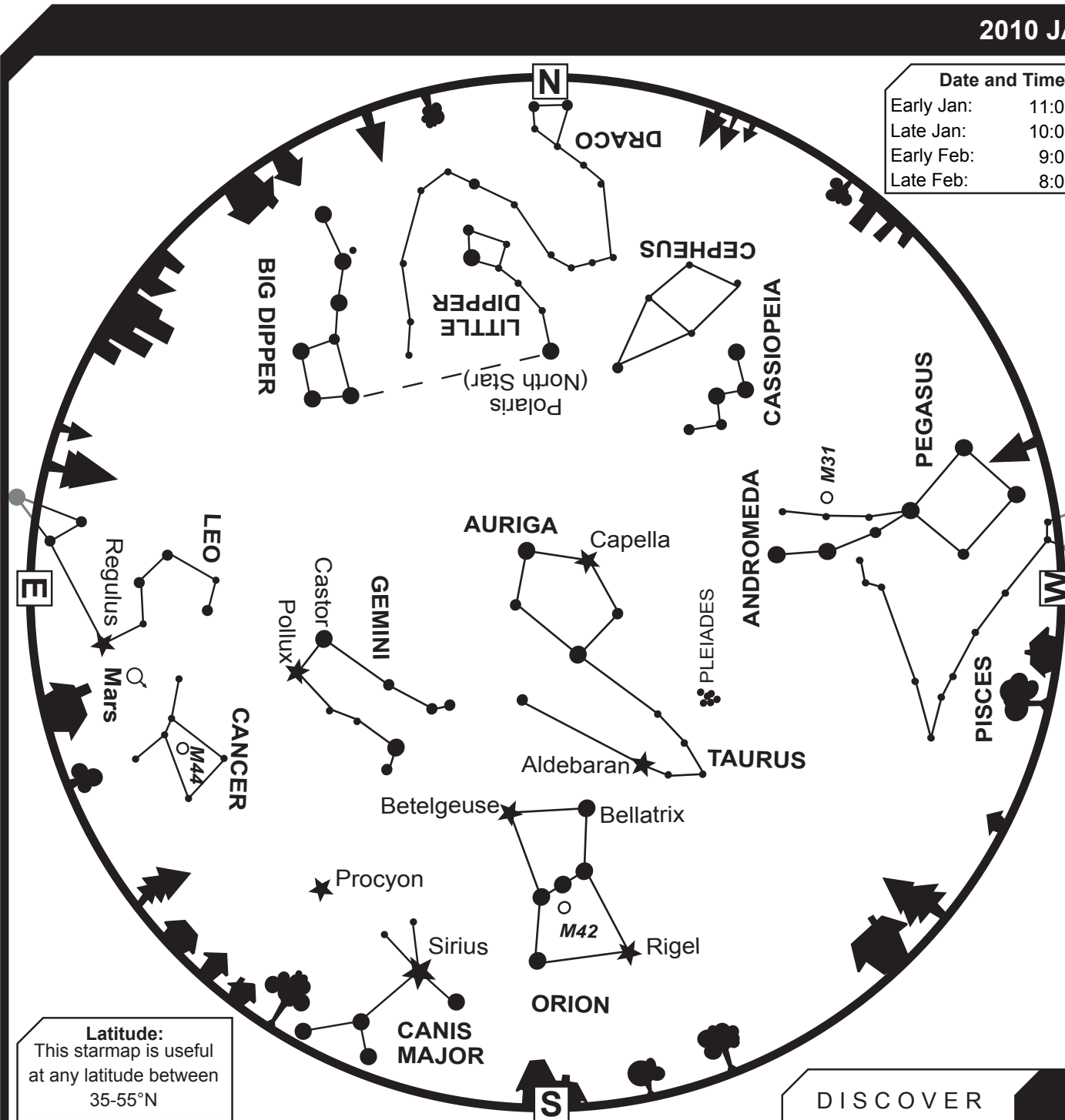
M31 - Andromeda Galaxy

M42 - Orion Nebula

M44 - Beehive Cluster

Planets:

♂ - Mars



Latitude:

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

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Willard Smith Planetarium

Traveling to Mars

Family Activity: As more discoveries are made on Mars by rovers, the question of what it would take to send people there looms nearer. With your family or friends, take a moment to imagine you are amongst the first astronauts sent on the long journey to the Martian surface. You might learn something about each other, as well as discover some of the challenges we will have to overcome before making the journey ourselves.

Thought Question 1

You will be cooped up in your ship to Mars for at least 6 months (probably more), followed by several months on Mars. Who would you choose to be your crew and why? Would you be able to get along with them for four months?

Thought Question 3

Thinking of the early pioneers in your own country, what skills would you look for in choosing people to be on your team?

Thought Question 2

It costs between \$2,000 and \$14,000 to launch each pound of material into space. Because of this, astronauts are allowed only one pound of personal items. What would you take with you for a trip to Mars? (Remember, it has to weigh less than a pound!) How would it help you cope with being so far from home?

Thought Question 4

Sometimes, astronauts get to perform personal experiments while in orbit. What experiments would you want to try on Mars? Why? What would you hope to learn?

Mars at Opposition

On January 29 Mars will be at opposition - the closest it gets to the Earth. Mars is at opposition approximately every two years when the Earth passes it. This is a great time to observe Mars with the naked eye or with a telescope.

Picture: "Twin Peaks" area of Mars, taken in 1997 by NASA's Pathfinder mission.



Facing Mars

This winter, discover what life would be like on Mars. Experience how microgravity affects you, design, test and launch your own rocket, and even walk on Mars! Starting January 30, your journey to Mars awaits you at Pacific Science Center. We'll see you on the launch pad.

Astronomy Internet Resources

Sky Information:

stardate.org/nightsky/weekly.php

University of Washington Observatory:
www.astro.washington.edu/groups/outreach/tjo/

Seattle-Area Astronomy Events:
www.seattleastro.org

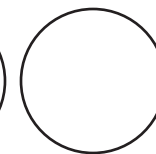
Advanced Astronomy Updates:
www.AlicesAstroInfo.com

The Willard Smith Planetarium is now booking private shows for your special occasion. Please call our group sales line at: 206-443-3611.



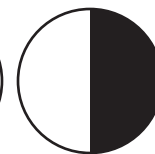
First
Quarter

Jan 23
Feb 21



Full
Moon

Jan 29
Feb 28



Third
Quarter

Jan 7
Feb 5



New
Moon

Jan 15
Feb 13

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