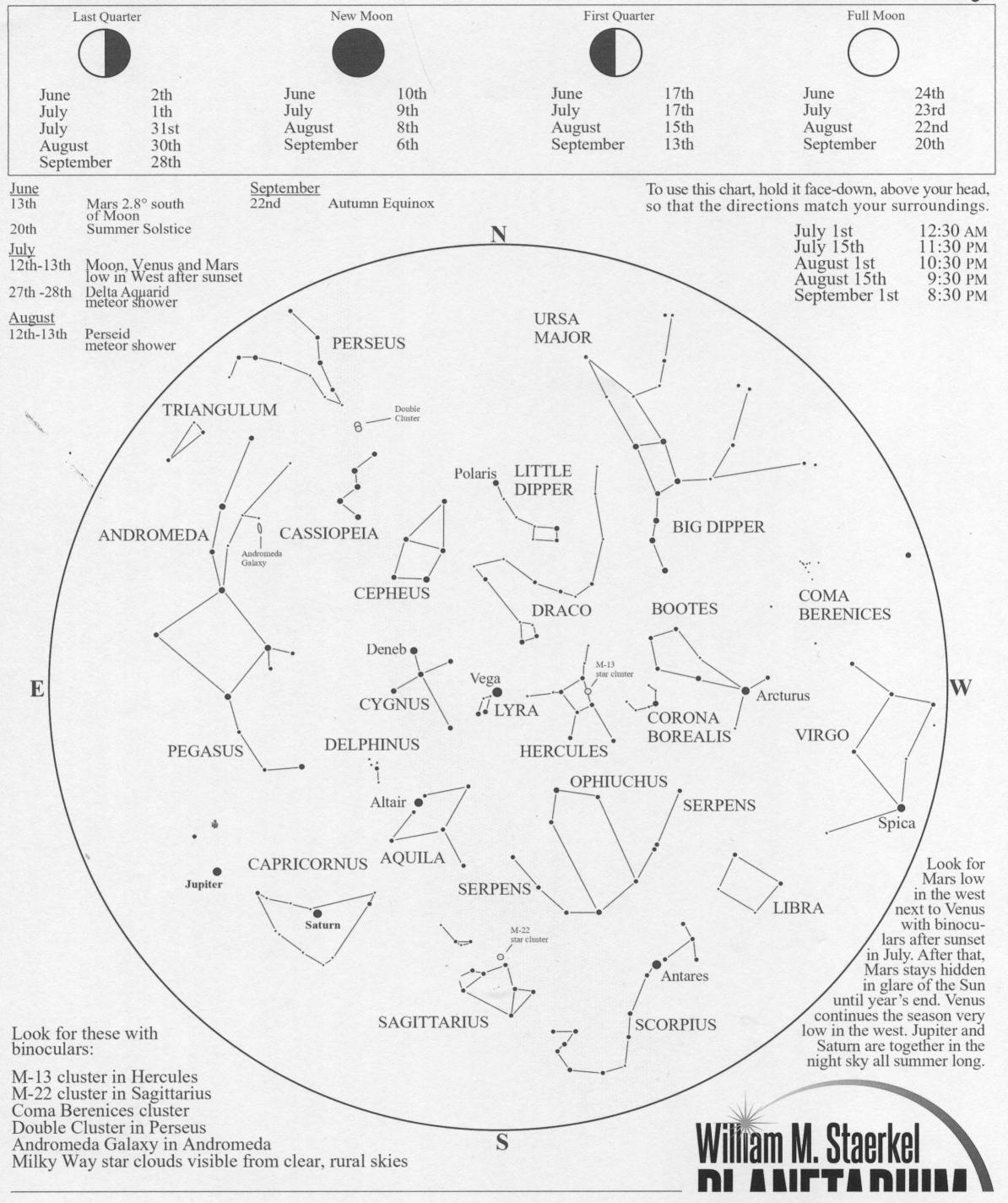
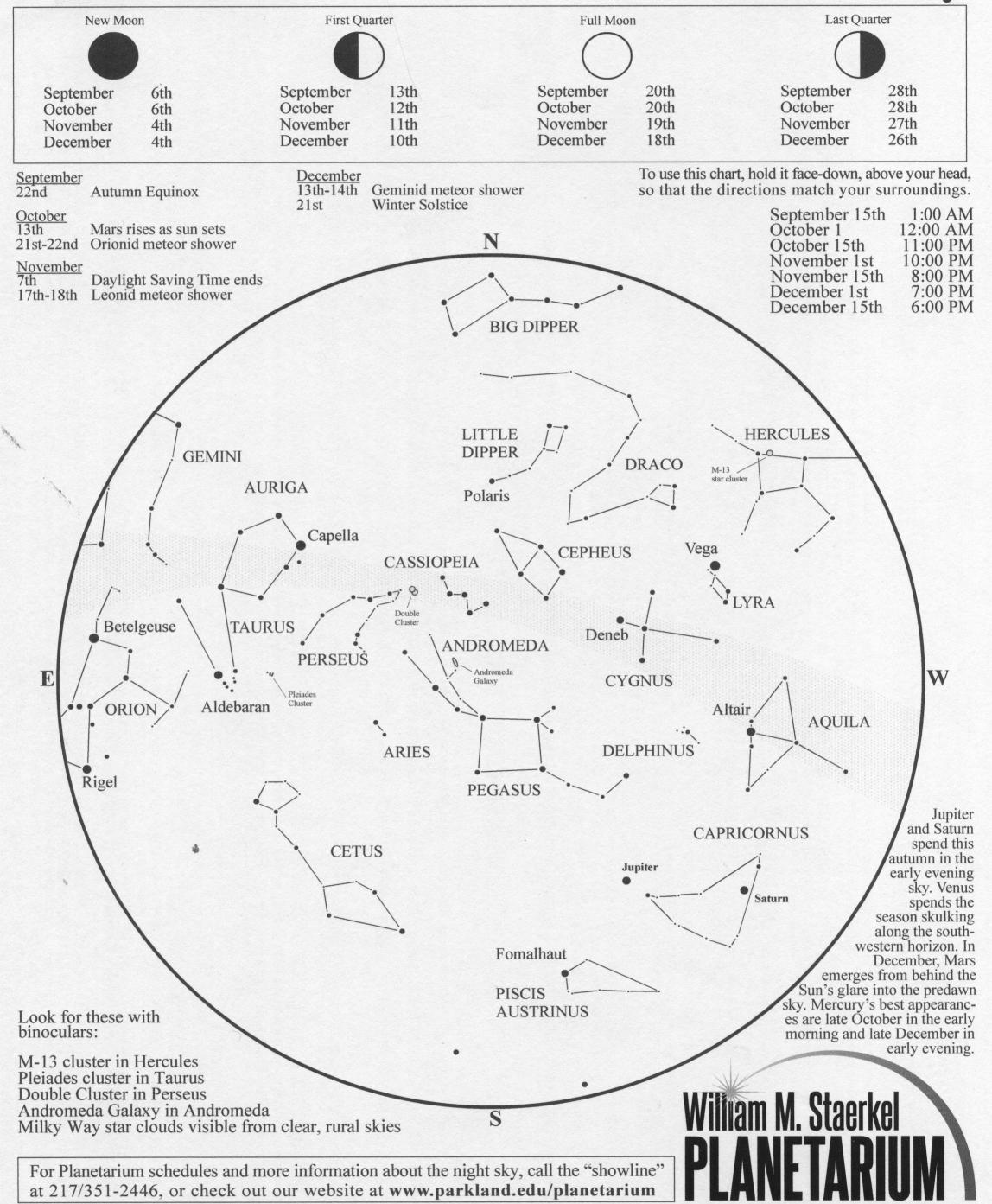
Summer 2021

Prairie Sky



Autumn 2021

Prairie Sky



CONSTELLATION INDEX

Abbr.	CONSTELLATION	How to say it	MAP No.
And	ANDROMEDA	an-DROM-eh-duh	2,3
Ant	ANTLIA	ANT-lih-wh	4,5
Agr	AQUARIUS	ack-KWAIR-ee-us	2
Aql	AQUILA	ACK-will-lah	61
Ara	ARA	A-ruh	6
Ari	ARIES -	A-rih-eez	3,2
Aur	AURIGA	or-EYE-gah	3,4
Воо	BOOTES	bow-OH-tees	5
Cae	CAELUM	SEE-lum	3
Cam	CAMELOPARDUS	ka-MEL-oh-bard-us	1
Cnc	CANCER	KAN-surr	4
CVn	CANES VENATICE	KAY-neez ven-AT-iss-si	5 .
CMa	CANIS MAJOR	KAY-niss MAY-jer	4,3
CMi		KAY-niss MY-ner	4
Cap		kap-rih-corn-nus	2,6
Car	CARINA	Ka-RYE-nuh ka-REEN-uh	
Cas.	CASSIOPEIA	Kass-ee-oh-PEE-ya	1,2
Cen	CENTAURUS	sen-TAW-russ	. 5
Cep	CEPHEUS	SEE-fee-us also SEE-fuss	1
Cet	CETUS	SEE -tuss	3, 2
Col	COLUMBA	ko-LUM-bah	3,4
Com	COMA BEREN!CES	KO-mah bear-en-EYE-sees	5
CrA	CORONA	kor-OH-nah oss-TRAY-liss	6
CrB	CORONA BOREALIS	Kor-OH-nah girls hon-ree-ALICE	
Crv	CORVUS	CORE - vuss	5
Crt	CRATER	KRAY-turr	5
Cru	CRUX	KRUX	5 .
Суд	CYGNUS	SIG-nuss	6,2,1
Del	DELPHINUS	del-FINE-uss	2,6
Dor	DORADO	dough-RAH-dough	3,4
Dra	DRACO	DRAY-ko	1,6
Equ	EQUULEUS -	ek-Kwoo-lee-us	2
Eri	ERIDANUS	eh-RID-uh-nuss	3
For	FORNAX	for - NAX	3
Gem		GEM-in-eye GEM-in-knee	4,3
Gru	GRUS	Grr-rus als GROOSE	2
Her	HERCULES	HER-kyou-leez	6
Hor	HOROLOGIUM	hor-oh-LO-ji-um	33
it was		to 60° South Sout	W Por

	Abbr.	CONSTELLATION	How to Say it	MAP No.		
	Hya	HYDRA	HIGH-druh = ==	5,4		
	Ind	INDUS	IN-duss	2,6		
	Lac	LACERTA	la-SIR-tah	2,1		
	Leo	LEO	LEE-oh	4,5		
	LMI	LEO MINOR	LEE-oh MY-ner	4,5		
	Lep	LEPUS	LEE-puss	3,45		
	Lib	LIBRA	LYE-bra-also LEE-bra			
	Lup	LUPUS	LEW-buss	5,6		
	Lyn	LYNX	LINKS	4,1		
	Lyr	LYRA	LYE-ruh	6 -		
	Mic	MICROSCOPIUM	my-kro-sko-bee-um	2,6		
	Mon	MONOCEROS	mon-oss-err-us	4		
	Nor	NORMA	NOR-mah	6		
	Oph	OPHIUCHUS	off-ih-YOU-kuss	- 6		
	Ori	ORION	oh-RYE-un	3,4		
	Peg	PEGASUS	PEG-uh-suss	2		
	Per	PERSEUS	PURR-see-us also	3		
	Phe	PHOENIX	FEE-nix	2		
	Pic	PICTOR	Pick-torr	3,4		
	Psc	PISCES	PIE-sees	2,3		
	PsA	PISCIS AUSTRINIS	PIE-siss oss-TRY-nus	2		
	Pup	PUPPIS	Pupp-iss	4		
	Pyx	PYXIS.	PICK-siss -	4		
	Sge	SAGITTA	sah-JIT-tah	6		
	Sgr.	SAGITTARIUS	saj-ih-TAY-rih-us	6 g		
	Sco	SCORPIUS-	SKOR-pih-uss	6.		
	Scl	SCULPTOR	SKULPT-tor	2		
	Sct	SCUTUM	SKYOU-tum	- 6		
	Ser	SERPENS	SIR-pens	6,5		
	Sex	SEXTANS	SEX-tanz	4,5		
	Tau	TAURUS	TAW-russ	3,4		
	Tel	TELESCOPIUM	tell-ih-sko-pee-um	6		
	Tri	TRIANGUEUM	try-ANGH-gu-lum	3		
•	UMa	URSA MAJOR	URR-sah MAY-jer	1, 5, 4		
•	UMi	URSA MINOR	URR-sah-MY-ner	黑原		
	Vel	VELA	VEE-lah	4,5		
•	Vir	VIRGO		5		
	Vul		vul-PECK-you-lah	46		
2	ONSTELLATIONS ARE NOT LISTED					

MEASURING ANGLES IN THE SKY

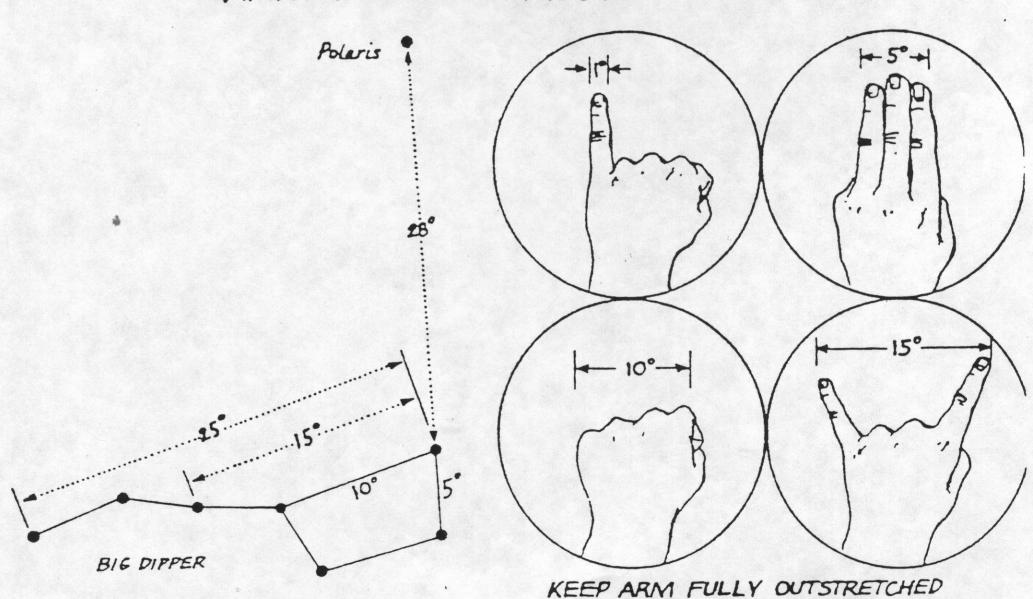
David C. Leake William M. Staerkel Planetarium - Parkland College

Often times, when reading about the stars and planets in the sky above, you will come across statements such as, "the two planets will come within five degrees of each other." How far is that? A "degree" is an angular measurement equal to 1/360 of a complete circle. There are 90 of these degrees in a right angle, for example the distance from the horizon to the point straight overhead; a point called "zenith."

In order to measure angles accurately you need to construct an instrument called a "Astrolabe." A simple device can be constructed with a protractor, a straw, a piece of string, and a weight (nut or bolt?). Tie one end of the string to the reference point of the protractor and the weight to the other end. Mount the straw along the long, flat side of the protractor. As you sight a star through the straw, the vertical string will point to a number on the protractor. This number, between 0-90, will be the star's altitude above the horizon. Try recording the moon's altitude above the horizon at the same time over several nights. What conclusions can you make from your data?

If the Astrolabe is a little too involved for you, you can still measure angles in the sky using the Big Dipper. Note the apparent separations of the stars from the diagram. You may also use your hand to measure angles. Hold your fists at arm's length. Sighting over the knuckles on each end on your fist is roughly 10 degrees. (A person with shorter arms will probably have a smaller fist.) Other configurations are shown. You can use this method to determine separations between planets, the length of the tails of bright comets, or even the length of prominent meteors.

HANDY SKY MEASURES

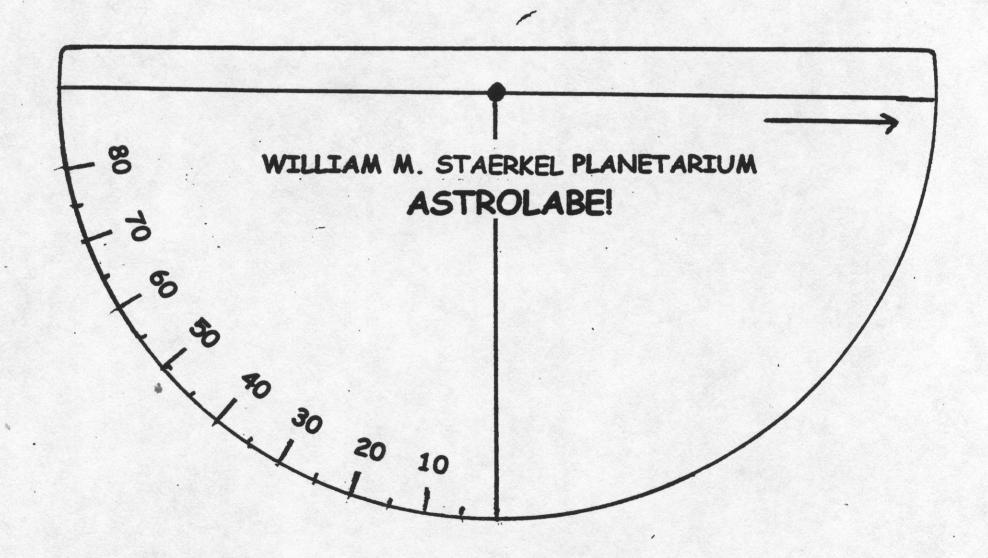




"ASTROLABE"

Before the telescope was invented, people used just their eyes to look at the sky. They measured the *angles* between stars and planets or between the ground and a star. You can make many useful measurements just by measuring angles! Angles are measured in "degrees." Let's build an astrolabe!

Directions: Cut out the figure below. It's basically a protractor like those you might have used in school. Attach a straw to the long, straight side with tape. Poke a small hole where the dot is and push a small bit of string through this hole. You only need about 6-8 inches of string. You can tape the string so it stays put. Attach a paperclip to the end of the string — this is just a weight to keep the string hanging down. Sight a star or planet through the straw and have a partner read where the string meets the scale.



4.