

The Newsletter of the Saskatoon Centre of the Royal Astronomical Society of Canada

Volume 56, Number 01

January 2025



Royal Astronomical Society of Canada Saskatoon Centre Incorporated Box 31086, RPO Broadway Saskatoon, SK S7H 5S8

WEBSITE: https://saskatoon.rasc.ca/ E -MAIL: sk centre@rasc.ca FACEBOOK: RASC Saskatoon Centre INSTAGRAM: @RASCYXE

To view *Saskatoon Skies* digitally, see our website: https://saskatoon.rasc.ca/newsletters.html

In This Issue:	
Membership Information / Officers of the Centre	2
Newsletter Info / U of S Observatory Info	3
Calendar of Events & Meeting Info	4
Books and Equipment For Sale / Printer Newsletter Info	5
January Night Sky Events & Info	6-8
Reimbursement for Centre Expenses	8
Clear Sky Chart / Weather Info / Light Abatement Info	9
Observing Certificates & Clubs	10-11

MEMBERSHIP? JOIN TODAY!

Regular: \$111.00 /year

Youth: \$61.10 /year

Family: \$105.50 + \$42.90/additional adult + \$22.20/additional youth

The Saskatoon Centre operates on a one-year revolving membership. You will be a member for the next 12 months no matter when in the year you join. Members are encouraged to renew early to avoid disruption in publications. Renew through the National Office at <u>http://www.rasc.ca/join</u>.

Benefits of Membership in the Saskatoon Centre

- knowledgeable & friendly amateur astronomers
- use of the Sleaford Observatory
- use of the U of S Observatory (after training)
- Saskatoon Skies Newsletter
- Observer's Handbook

- borrow the Centre's projector to give astronomy outreach presentations contact Les Dickson at <u>astrochem@sasktel.net</u>
- rent the Centre's Telescopes https://saskatoon.rasc.ca/telescopes.html
- use of the Centre library
- Journal of the RASC (electronic format)

SASKATOON CENTRE'S MAIN OFFICERS:

President - Brent Burlingham Vice-President - John Takala Secretary - Lorie Tedford Treasurer - Les Dickson National Council Rep - Joelle Sheard-Patrick

Canadian Tire money - Darrell Chatfield

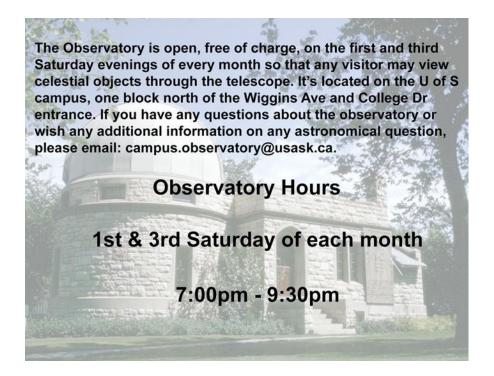
If you cannot attend a meeting but would like to donate your old Canadian Tire money please to assist with club purchases, email Darrell at **novachat@sasktel.net**.

NEWSLETTER & U OF S OBSERVATORY INFO

Newsletter Editor - Colin Chatfield Copy & Collate - Les & Ellen Dickson Labels & Temps - Mark de Jong Web Posting/Content Editor - Tenho Tuomi/Andrew Kostiuk/Brent Burlingham

Saskatoon Skies is published monthly by the Saskatoon Centre of the RASC. Distribution is approximately 80 copies per issue. Saskatoon Skies welcomes unsolicited articles, sketches, photographs, cartoons, and other astronomy or space science material. Submissions should be sent by e-mail to the editor at <u>colcha@gmail.com</u> in MS Word or text format. Images (new or old): any format, less than 30MB, sent by e-mail as attached files. Send any articles of interest to the night sky or astronomy. **Deadline for submission of all articles for an upcoming issue is the first Friday of each month!**

Saskatoon Skies is also posted on our Saskatoon Centre homepage as a .pdf file and can be downloaded free-of-charge. Members may choose to receive the newsletter by regular mail or via the Internet. Articles may be reprinted from Saskatoon Skies without expressed permission (unless otherwise indicated), provided that proper source credit is given. Saskatoon Skies accepts commercial advertising. Please email the editor at colcha@gmail.com for rates. Members can advertise non-commercial items for free.



Hours subject to change, so check below for more info -

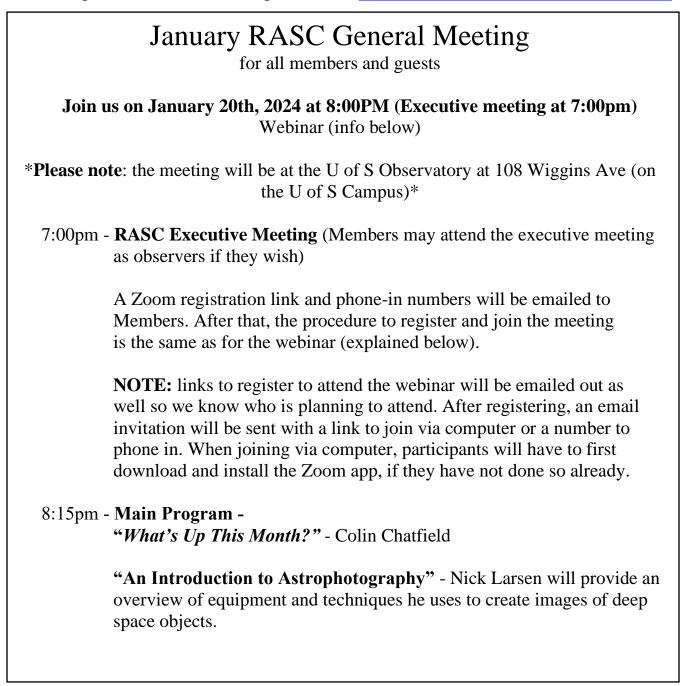
Website - <u>https://artsandscience.usask.ca/physics/facilities/observatory.php</u> Facebook - <u>https://www.facebook.com/usaskobservatory/</u>

RASC CALENDAR OF EVENTS & MEETING INFO

Jan 20	RASC Saskatoon Centre General Meeting	Brent Burlingham
Jan 25	Observer's Group - Sleaford Observatory	Nick Larsen

Observer's group viewing starts at dusk at the Sleaford Observatory dark site. Get there early and set up for a great night of observing! Members and their guests only.

For a complete list of club events, please visit: https://saskatoon.rasc.ca/activities.html



BOOKS AND EQUIPMENT FOR SALE

All books are in either new, or like new condition. Retail price in brackets. Please email at <u>novachat@sasktel.net</u> or text/call 306-222-0515 if you want a particular book to make arrangements. All books being sold by Darrell Chatfield.

"Deep-Sky Observers Handbook" Volume 1-5 Enslow-Lutterworth	\$40.00
"International Encyclopedia of Astronomy" 1987 Patrick Moore Color	\$10.00
"Backyard Astronomers Guide" T. Dickinson & Alan Dyer 2008 Color	\$25.00
"Atlas of Deep Sky Splendors" 1978 H. Verhenberg B & W	\$22.00
"Amateur Astronomers Catalog of 500 Deep Sky Objects" Vol 1 1980 B	& W
R. Morales	\$15.00
"Observing the Constellations" 1989 J. Sanford Color charts	\$10.00

Please email me if you want to see any items - novachat@sasktel.net. Darrell Chatfield

- 2 - 1.25" rack and pinion focusers for refractor type telescopes. Brand new. Never used. Inset diameter is 57mm. Heavy duty type with metal knurled knobs. All have boxes. \$20.00 each.

- Original Celestron orange tube C5" scope with tangent arm. Fork arms. SCOPE ONLY. <u>No tripod or wedge</u>. 5 x 30 finder, 1.25" visual back, diagonal, eyepiece, lens cap, metal case. Was used as a spotter scope. Not a mark on the tube. Clean looking. \$250.00

- 1 1.25" eyepiece extender 3" long \$20.00
- 1 1.25" Celestron off axis guider c/w 12.5mm ep. Can be illuminated. New. \$45.00
- 1 Celestron 1.25" reticle. Can be illuminated \$20.00
- 1 3.5" long 1.25" tele-extender \$20.00
- 3 1.25" visual backs new \$10.00 each
- 1 1.25" to 0.965' visual back \$10.00
- 1 Camera to visual back adapter Lightly used \$10.00
- 1 Threaded visual back to 16mm male threads camera adapter \$10.00

PRINTED NEWSLETTERS

Please note that starting with the recent December 2024 newsletter, the printed newsletters will not be mailed any longer.

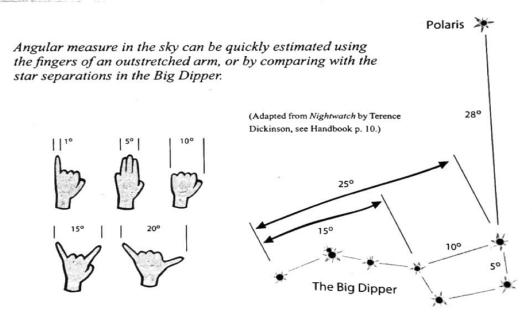


Rosette Nebula in Monoceros from Sleaford using a RASA 8. Taken by Jeff Swick.

JANUARY NIGHT SKY EVENTS AND INFO

Images on the next few pages taken, with permission, from the 2024/25 Observer's Handbook. It can be obtained by joining the RASC here <u>http://rasc.ca/join</u> or ordered from <u>https://secure.rasc.ca/store/product/observer-s-handbook-2024</u>

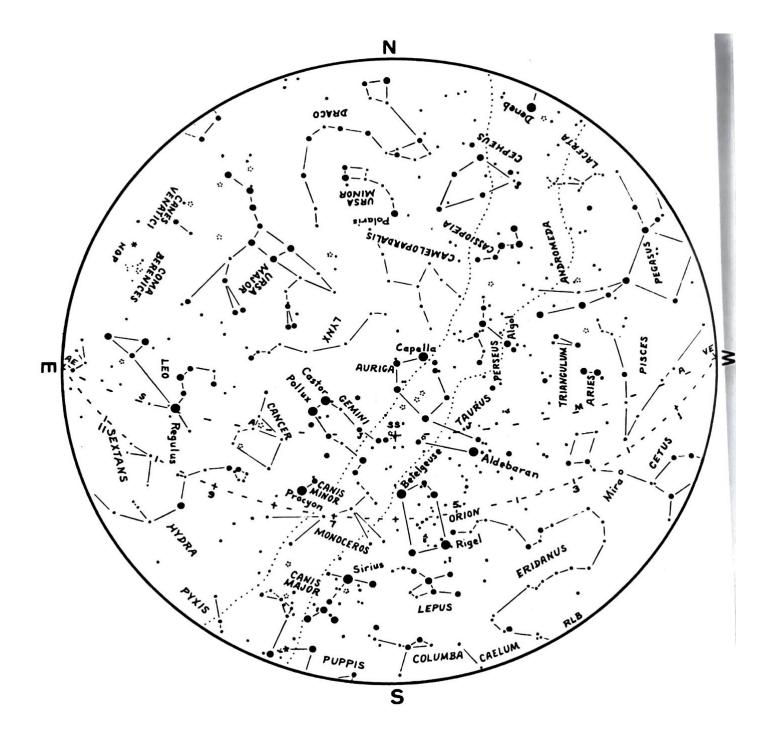
HANDY SKY MEASURES



RASC OBSERVER'S HANDBOOK 2024 - STANDARD EDITION

JANUARY 2025

Time	e (U	T)	JANUARY EVENTS		Jupiter's Satellites
	d h	m			West East
Thu.	2 '	7 53	Algol at minimum	1	1.0
	3 8	3	Pallas in conjunction with the Sun	124	2.0
1	1:		Venus 1.4° N of Moon	the second	Ganymede
	1:		Quadrantid meteors peak	in the second	3.0
Sat.	4 13		Earth at perihelion (147 103 686 km)		4.0 Europa
	11		Saturn 0.7° S of Moon, occultation	A second	X
Sun.	-	4 42		6	5.0 Callisto
	1.		Neptune 1.1° S of Moon, occultation ²		6.0
		9 46	0	the second second	10
1010111	6 23	3 56	first quarter		7.0
1	7	•	Moon of noning (270 171 1		8.0
Wed.) 131	Moon at perigee (370 171 km)	No.	
	9	51		(1: m)	9.0 1 0.0
Thu.	10	5	Mercury at descending node Uranus 4° S of Moon	(T. S.)	
Fri. 10		2	Moon in Pleiades (M45)		10.0
Fri. 10		5	Venus greatest elongation E (47°)	22 95	11.0 - X
	22		Algol at minimum		<u>'X</u>
	23		Jupiter 5° S of Moon		12.0
Sat. 1				(F. 12.)	13.0
	2 14	1	Mars at closest approach		
Mon. 1			Algol at minimum		14.0
1110111 -	100	2 27		200	15.0
Tue. 14		1	Mars 0.2° S of Moon, occultation ³		
Wed. 1:	5				16.0
Thu. 1	6		Venus at ascending node	All on	17.0
		3	Mars at opposition	(1) T.	
	1 million (1997)	5 58	Algol at minimum		18.0
Fri. 1'				20	19.0
Sat. 1					
Sun. 19		49	0		20.0
		2 46			21.0
Mon. 20	· · ·	-	Mercury at aphelion		
T	. 1 3	5	Venus 3° N of Saturn		22.0
Tue. 2		2	Spica 0.1° N of Moon, occultation ⁴	C. LA	23.0 -/ (
8	18		Moon at apogee (404 298 km) Mars 2° S of Pollux	97 F 77	$\sum_{i=1}^{n} \langle \langle \nabla \rangle \rangle$
) 31			24.0
Wed. 22		35		(CA)	25.0
Thu. 23		, 55	Algor at minimum	ALL IN	
Fri. 24			*		26.0
Sat. 25)	Antares 0.3° N of Moon, occultation ⁵		27.0
		5 24	Algol at minimum	100 19	27.0
Sun. 26					28.0
Mon. 27				(Allen	
Tue. 28	3 3	3 13	Algol at minimum	Carl P	29.0
Wed. 29	9 12	2 36	new Moon (lunation 1263)	· Committee	30.0
Thu. 30) 19)	Uranus stationary		
Fri. 31		02	Algol at minimum	(300 Is	31.0
NWS A	norio	o Ch	of of C America OF dir of ICA Come March T. MIL	1 4 6 1	K 1



REIMBURSEMENT FOR CENTRE EXPENSES

The Centre has a reimbursement procedure on submission of expense claims. A writeable pdf claim form can be found on the Centre webpage under the Executive tab. The expense form **must** be submitted *along with original receipts* to the Treasurer within 30 days of the transaction. All expenditures must be preapproved by the Executive or be within allocated budgets.

Please contact the Treasurer with any inquiries.

SASKATOON SKIES

JANUARY 2025

CLEAR SKY AND WEATHER INFO

To find clear skies, visit the Clear Dark Sky website -

https://www.cleardarksky.com/csk/

Once there, one can enter your location to find clear skies. The chart will appear as follows:

			SL	e	af	o	r		0	95	e	r	Vā	it	or	٦y		Cl	.e	a	•	S	kų		Cł	۱a	r	t									
2019-11-03	Ş	in	daţ																				da								_	_		Τı		sd	ay
Local Time	1 9 0	1	$\frac{1}{2}\frac{1}{2}$	1 34	15									1 2	23	4	5	6	78	; 9											22		1 1	2.3	34	5	6
Cloud Cover:	T			T	Ē															T		-						Ĭ	1						T		
🚽 Transparency :																																			T		
🗖 Seeing:								Т	Т				Т	Т	T					Т				Т	Т					Т	Т			T	T		
Darkness:			Т	Т																				Т													
ʒWind:				Т				Т	Т				Т							T																	
a Humidity:									Т											Т					Т												
🕹 Temperature: 🛛				Т					Т					Т	Т	Г			Т	Т					Т	Γ					Т			T	Т		
© 2	:01	9	A.[Dai	nk	ο.		fc	ire	204	as	t:	Ê	۱.F	Rah	ni	11		da	ita	:		Þ	EC	nviro a nad	nme	ent	EC	nvire a nac	onne	men	ſt					

Environment Canada provides weather information for astronomy -

www.weather.gc.ca/astro



Saskatchewan Light Pollution Abatement Committee -

http://myotherlife.net/slpac/



www.darksky.org



Horsehead and Flame Nebulae imaged at Sleaford Observatory Friday, November 1st, 2024. 5 hours total, 300 second exposures. Redcat 51x250mm, ASI 2600 Duo colour camera, Optolong L-quad enhance filter, ZWO AM3 harmonic drive mount. Processed in Siril. Photo by Nick Larsen.

OBSERVING CERTIFICATES AND CLUBS

RASC OBSERVING PROGRAMS AND CERTIFICATES

The RASC offers four observing certificates for **members** who observe all objects in each of the following observing lists in this chapter:

THE MESSIER CATALOGUE (p. 312)

THE FINEST NGC OBJECTS (p. 316),

THE DEEP-SKY CHALLENGE OBJECTS (p. 320),

DEEP-SKY GEMS (p. 322).

See rasc.ca/certificate-programs for details and contact the RASC Observing Committee Chair at rasc.ca/contact/observing for further information.



The RASC also offers the Explore the Universe Certificate for novice observers (who do not have to be RASC members), the Explore the Moon Certificate for beginning members, and the Isabel Williamson Lunar Observing Certificate and the Double Stars Observing Certificate for intermediate to advanced members. In addition, Astroimaging certificates are available for those members with a photographic bent. See rasc.ca/astro-imaging-certificate

RASC OBSERVER'S HANDBOOK 2023 - STANDARD EDITION

Join the Club! Observe all 110 Messier, 110 Finest NGC, 400 Herschel I or II, 140 Lunar, 154 Sky Gems or 35 Binocular objects, or Explore the Universe and earn great OBSERVING CERTIFICATES!

MESSIER CLUB Certified at 110 Objects:

R. Huziak, G. Sarty, S. Alexander, S. Ferguson, D. Chatfield, T. Tuomi, L. Scott, G. Charpentier, B. Johnson, L. Dickson, B. Burlingham, Norma Jensen, Donna-Lee May

Ron Waldron	108
Brent Gratias	104
Marcel Müller-	94
Goldkuhle	
Wade Selvig	75
Wayne Schlapkohl	43
Ellen Dickson	34
Graham Hartridge	9

CHATFIELD BINOCULAR CERTIFICATE Certified at 35 to 40 Objects:

12

T. Tuomi, R. Huziak

Jim Goodridge

FINEST NGC CLUB Certified at 110 Objects:

R. Huziak, G. Sarty, D. Chatfield, T. Tuomi

T G	110
Larry Scott	110
Scott Alexander	97
Norma Jensen	83
Sandy Ferguson	23
George Charpentier	13
Brent Burlingham	97

EXPLORE THE UNIVERSE Certified at 55 to 110

Objects: T. Tuomi, B. GratiasWayne Schlapkohl55Jim Goodridge35

ISABEL WILLIAMSON LUNAR OBSERVING CERTIFICATE Certified at 140 Objects: *T. Tuomi, N. Jensen*

EXPLORE THE MOON CERTIFICATE T. Yaworski

Brent Gratias 37

HERSCHEL 400 CLUB Certified at 400 Objects:

R. Huziak, D. Chatfield, T. Tuomi

Gordon Sarty	251
Scott Alexander	117
Larry Scott	45
Sandy Ferguson	18

HERSCHEL 400-II CLUB

Darrell Chatfield	400
Tenho Tuomi	378
Rick Huziak	246

LEVY DEEP-SKY GEMS Certified at 154 Objects:

Tenho Tuomi	150
Darrell Chatfield	70

Messier, Finest NGC, and David Levy's Deep-Sky lists in the *Observer's Handbook*. The Explore the Universe list is available here <u>http://www.rasc.ca/explore-universe</u> Messier and Finest NGC lists, charts and logbooks: <u>https://www.rasc.ca/certificate-programs</u> Herschel 400 List: <u>http://www.astroloeague.org/al/obsclubs/herschel/hers400.html</u> Chatfield Binocular List is at: <u>https://saskatoon.rasc.ca/Chatfield_Binocular_List.pdf</u> "Isabel Williamson Lunar Observing Program Guide" program details can be found at: <u>https://www.rasc.ca/isabel-williamson-lunar-observing-program</u>