

Saskatoon Skies

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

Vol. 39, No. 11

November 2008

Members Meet Meade 16" At the Sleaford Observatory



On Saturday, October 18, Rick Huziak showed several members how to operate our new, state-of-the-art Centre scope at the Sleaford site. The observatory's annual Open House later that evening was also a great success, with good attendance and fine skies.

Photo by Jeff Swick



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To view *Saskatoon Skies* in colour, see our Website:

<http://homepage.usask.ca/~ges125/rasc/newsletters.html>

MEMBERSHIP? IT'S NEVER TOO LATE TO JOIN!

Regular: \$77.00 /year

Youth: \$41.00 /year

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. If you do not want to join at this time, ask to get onto our FREE 3-month Temporary Membership list. You will receive regular mailings of our Saskatoon Skies newsletter and will be invited to participate in Centre activities. Members are encouraged to renew early to avoid disruption in publications. Renew through the membership coordinator, Mike Clancy, or renew through the National Office and let Mike know that you did!

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
- The Journal of the RASC (electronic format)
- SkyNews Magazine (bimonthly)
- use of the Centre library
- rent the Centre's Telescopes
<http://homepage.usask.ca/ges125/rasc/telescopes.html>
- discounts to Sky & Telescope Magazine*
- free, no-cost, no-obligation, 3-month temporary membership if you don 't want to join right now!

*New subscription or renewal of Sky & Telescope? Send new info or renewal notice, plus credit card # to Norma Jensen, 128 – 4th Street East, Saskatoon, SK S7H 1H8, or email her at njensen@scs.sk.ca .

U OF S OBSERVATORY

The U of S Observatory is open to the general public every Saturday of the year. Admission is free. The observatory is located on campus, one block north of the Wiggins Avenue and College Drive entrance. On clear nights, visitors may look through the vintage 6-inch and tour several displays. Current events are recorded on the Astronomy Information Line at 966-6429.

Observatory Hours:

January-February	7:30-9:30 pm
March	8:30-10:30 pm
April	9:30-11:30 pm
May-July	10:00-11:30 pm
August	9:30-11:30 pm
September	8:30-10:30 pm
October-December	7:30-9:30 pm

SASKATOON CENTRE'S MAIN OFFICERS:

President – Barb Wright, 249-1990
Secretary – Al Hartridge, 373-0034
Vice-President – Jeff Swick, 373-3902
Treasurer – Norma Jensen, 244-7360

**Bottle Drive &
Canadian Tire \$**
By Darrell Chatfield

If you cannot make it to a meeting but would like to contribute your Canadian Tire money please call me at 374-9278.

LIGHT POLLUTION
ABATEMENT
WEBSITE AT:
www.ras.sk.ca/lpc/lpc.htm

Newsletter Editors – Christine Kulyk , Tenho Tuomi
Copy & Collate – Les & Ellen Dickson
Labels & Temps – Mike Clancy
Web Posting – Gord Sarty

Saskatoon Skies is published monthly by the Saskatoon Centre of the RASC. Distribution is approximately 100 copies per issue. Saskatoon Skies welcomes unsolicited articles, sketches, photographs, cartoons, and other astronomy or space science material. **Articles can be sent by mail in any format to the Centre's mailbox.** Submitted materials can be returned upon request. Submissions may also be sent by e-mail to the editor at ckulyk@sasktel.net – preferred as plain unformatted ASCII text files without line breaks. Images sent by e-mail should be attached files.

A separate by-mail subscription to Saskatoon Skies is available for \$15.00 per year. 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 stated), but source credit is requested. DEADLINE for submissions is the 26th of each month. Saskatoon Skies accepts Commercial advertising. Please call the editor 306-858-2453 for rates. Members can advertise non-commercial items free of charge.

RASC CALENDAR OF EVENTS

Nov 17	RASC Executive Meeting - 6:30 pm, 175 Physics, U of S.	Barb Wright	249-1990
Nov 17	RASC General Meeting - 7:30 pm, 175 Physics, U of S.	Barb Wright	249-1990
Nov 21	Observers Group – 7:00 pm, Sleaford Observatory	Larry Scott	934-5801
Dec 15	Christmas Potluck Social – 6:30 pm, 175 Physics, U of S	Barb Wright	249-1990
Dec 20	Observers Group – 7:00 pm, Sleaford Observatory	Larry Scott	934-5801
Jan 17	Observers Group – 7:00 pm, Sleaford Observatory	Larry Scott	934-5801

Minutes of the Executive Meeting October 20, 2008

by Al Hartridge

1. Meeting called to order at 6:43 pm.
2. Approval of the minutes of the previous meeting:
Moved by Barb Wright, seconded by Jim Young, and carried.
3. Astronomy art display: The application for the display has been accepted by the Library. Kathleen Huziak will be curator. We will have to provide the hardware to hang the art.
4. IYA activities: Some discussion regarding making a banner for the International Year of Astronomy occurred.
5. Maps to the Sleaford site: It was decided that it might not be a good idea to make directions freely available as this could promote vandalism.
6. Meeting adjourned at 7:06 pm.

SKY BUYS & MIRROR CELLS

The Saskatoon Centre's Swap and Sale Page

FOR SALE: Orion 12" Intelliscope. Comes with 20mm eyepiece, a regular and Telrad finder; all for \$700. Phone: 241-5818.



Solar Prominence, September 28, 2008.
Canon 40D prime focus with my Coronado PST.
Photo by Bob Johnson

Minutes of the Annual Meeting October 20, 2008

by Al Hartridge

1. Meeting called to order at 7:30 pm.
2. Approval of the minutes of the previous meeting:
Moved by Rick Huziak, seconded by Mike Clancy, and carried.
3. Events Committee: Jeff Swick complimented Rick Huziak on his walk-through instructions at the Sleaford site of the Meade 16" setup. Jeff also suggested slip-proofing the school landing and steps at Sleaford.
4. Membership Committee: Mike Clancy stated that there are 79 members and 3 temps. Also mentioned that Sask. Parks are very interested in having amateur astronomers present programs and star nights to the public during the summer camping season. This would pay \$250.00. (Campsite and gate entry also included.)
5. Newsletter: Submission deadline for next newsletter will be October 27. Also was noted that the weight of the newsletter was increasing.
6. Astronomy Art Display: Will be at the Frances Morrison Library during September 2009. Kathleen Huziak will be in charge.
7. IYA activities: It was suggested we have some type of banner available.
8. Centre Elections: The following officers were elected:
 - President - Barb Wright
 - Vice President - Jeff Swick
 - Past President - Garry Stone
 - Newsletter Co-Editors - Tenho Tuomi & Christine Kulyk
 - Treasurer - Norma Jensen
 - Secretary - Al Hartridge
9. Presentation: Light Pollution Threats and Successes in Saskatchewan, by Rick Huziak.
10. Meeting adjourned at 9:45 pm.



MONDAY, November 17, 7:30 PM

Room 175, Physics Bldg., U of S

There will be an Executive Meeting at 6:30 pm.

**“Aperture Fever Gives Way to Space Fever:
Observing With the MOST Space Telescope”
by Gordon Sarty**



BOOKS FOR SALE

by Bruce Brandell, Sales Coordinator

All items will be available at our next meeting or call 249-1119, or email breeves@sasktel.net

Title
Calendars

Title	Author	#	Price
RASC 2009	RASC	6	\$14.00
RASC 2007	RASC	2	\$5.00
Skywatcher's 2009	S. Shadick	7	\$18.00
Skywatcher's 2008	S. Shadick	1	\$10.00
Skywatcher's 07	S. Shadick	5	\$2.00
Skywatcher's 06	S. Shadick	1	\$2.00

Books

The Backyard Astronomer's Guide	Dickinson & Dyer	2	\$40.00
The Beginner's Observer's Guide	L. Enright	5	\$19.00
Observer's Handbook 2006	RASC	5	\$5.00
Observer's Handbook 2005	RASC	1	\$2.00
Practical Astronomy	S. Dunlop	3	\$14.00
Summer Stargazing	T. Dickinson	4	\$18.00
Celestial Sampler	S. French	4	\$26.00
Firefly Astronomy Dictionary	Firefly	3	\$14.00
Firefly Planisphere	Firefly	4	\$19.00
Seeing in the Dark	T. Ferris	2	\$18.00
Night Sky Atlas	R. Scagell	3	\$24.00
Stargazing with a Telescope	R. Scagell	2	\$14.00
Beautiful Universe	Sky & Telescope	1	\$12.00
There Once was a Sky Full of Stars	Crelin & Ziner	5	\$20.00
Space 50 Years and Counting	Sky & Telescope	1	\$13.00
The Moon Observer's Guide	P. Grego	3	\$14.00
Isabelle Williamson Lunar Observing Program	RASC	7	\$10.00
The Sun Observer's Guide	T. Spence	3	\$14.00
Moon Map (laminated)	Sky & Telescope	6	\$6.00
Field Map of the Moon	Sky & Telescope	3	\$12.50
Lunar 100 Card	Sky & Telescope	2	\$5.00

Mars Observer's Guide	N. Bone	2	\$14.00
Deep Sky Observer's Guide	N. Bone	2	\$14.00
Stars	Zim Baker & Chartrand	1	\$10.00
Exploring the Night Sky	T. Dickinson	11	\$9.50
Exploring the Sky by Day	T. Dickinson	10	\$9.50
Patterns in the Sky	K. Hewitt-White	3	\$16.00
Pocket Sky Atlas	R. Sinnott	8	\$24.50
Binocular Highlights	G. Seronik	3	\$26.00
Night Sky Star Wheel	Sky & Telescope	1	\$8.00
S & T Star Wheel	Sky & Telescope	3	\$19.00
Messier Card (unlaminated)	Sky & Telescope	5	\$5.00
Deep Sky Wonders	W. Houston	2	\$24.00
The Messier Objects	S.J. O'Mearn	1	\$39.00
Scientific American Book of the Cosmos	D.H. Levy	1	\$48.00
Skyways-Astronomy Handbook for Teachers	M.L. Whitehome	4	\$16.00
Saskatoon's Stone	W.K. Mysyk & C. Kulyk	9	\$3.00
On the Moon	P. Moore	2	\$27.00
On Mars	P. Moore	1	\$23.00
Sky Atlas 2000.0	Sky & Telescope	2	\$39.00

Miscellaneous

RASC Centennial Mug		2	\$5.00
RASC Stickers, blue or white			\$1.00
SSSP 2001 Pin (Summer Triangle)		13	\$2.00
SSSP 2002 Pin (Comet Petriew)		24	\$2.00
SSSP 2006 Pin (10 th Anniversary)		46	\$4.00
SSSP 2007 Pin (DSP = Deep Sky Preserve)		35	\$5.00

Editor's Corner

by Christine Kulyk

As we head into the 2009 International Year of Astronomy, our Centre Council has acquired some new officers, who were elected at our October meeting. Many thanks are due to all those who served on Council during the past year, and in particular, to retiring President Garry Stone.

Thanks also to all those who have agreed to continue in their positions for another year. We are sure to have a great year ahead, with the Saskatchewan General Assembly and IYA activities as our headliners. Best wishes to all our dedicated Councillors and Coordinators for success in the coming year!

Following is a complete list of positions as of October 2008. NOTE: Positions marked "OPEN" have yet to be filled. YOUR NAME could go here! Just let our new President, Barb Wright, know of your interest, and she can provide you with details. The best way to get the full Saskatoon Centre experience is by serving on Council or as part of a Committee.

Executive Council:

President: Barb Wright

Vice President: Jeff Swick

Past President: Garry Stone

Secretary: Al Hartridge

Treasurer: Norma Jensen

Newsletter Co-Editors: Tenho Tuomi

& Christine Kulyk

National Council Rep: OPEN

Events Coordinator: Jeff Swick

Fund-Raising Coordinator: OPEN

Membership Coordinator: Marc DeJong

Observing Coordinator: Larry Scott

Sleaford Site Coordinator: Darrell Chatfield

SSSP Coordinator: Barb Wright

Councillor-at-Large: Jim Young

Councillor-at-Large: Les Dickson

Non-Executive Positions:

Librarian: Darrell Chatfield

Photographer/Archivist: George Charpentier

Meeting Room Coordinator: Graham Hartridge

New & Distant Members Coordinator: James

Gorkoff

Publications Sales Coordinator: Bruce Brandell

Webmaster: Gordon Sarty

In Remembrance: William Hydomako



It is with much sadness that we note the passing of one of our Centre's most beloved and active members, Bill Hydomako, on November 1. A memorial service was held November 5 at the Saskatoon Funeral Home.

In accordance with the family's wishes, donations in Bill's memory for the Sleaford Observatory Building Fund may be sent to the RASC Saskatoon Centre Treasurer (PO Box 317, RPO University, Saskatoon, SK S7N 4J8).

Our deepest sympathies go out to Marianne Hydomako and family. (E-mail condolences may be sent to: mail@saskatoonfuneralhome.com)

Photo by Tenho Tuomi

Annual Open House & BBQ at Sleaford

by Rick Huziak

Saturday, October 18, saw many of our members and a host of visitors turn out for our annual Sleaford Observatory Open House. Hosting this event in mid-October sometimes has its weather hazards, but this year, the wind was calm and temperature decently warm, despite a morning of general drizzle. Rain typically deters astronomy, but Clear Sky Clock predicted that the rainy day would succumb to clearing around suppertime. In any case, our Open Houses are advertised well in advance, so the gig was to go rain or shine!

Before the crowds were to arrive for the evening Open House, we had two earlier events for members: a Training Session for the 16" telescope and our annual members' potluck BBQ. By the time I arrived a few minutes after 3:00 pm, some of the members were already setting up the BBQ and getting the schoolhouse prepared for the evening. Any rain at Sleaford had stopped awhile before, so it looked like fortune was smiling upon us once again.

About 3:45 pm, I decided to get the telescope seminar going, and we spent the next 45 minutes going through the steps for opening and closing the U of S Roll-Off Observatory and learning to use the Centre's new Meade 16" GoTo telescope. By the time we were done, five eager members had qualified to use the Roll-Off and telescope.

At 4:30 pm, we got the barbecue fired up and the potluck rolling. This year, 14 people (members and their families) participated in the good eats. After cleaning up a bit, we all began preparations for our evening guests. The sky was beginning to clear, just a bit later than Clear Sky Clock had predicted.

As 6:30 pm approached, a few more members arrived and began setting up their telescopes, since it was now certain that we'd have a good night! The question was: Would we get a crowd? It looked like it was still cloudy in Saskatoon, and surely everyone remembered the rain earlier in the day.

Our question was 6



Newly elected Prez Barb Wright has begun to cook up a great year for the Centre - Photo by Jeff Swick



Gordon Sarty happily surveys a mountain of munchies - Photo by Rick Huziak

answered at 7:40 pm when a long string of over 20 cars came charging down the road with Stan Shadick as their leader! (Stan advertises the Open House each year in the *Saskatoon Sun* and then volunteers to lead a car convoy from the Saskatoon Field House to the Sleaford Observatory site.) With an average of four people to a car (including several family groups), the big crowd surprised us a bit, but we were happy to see everyone come out.



Andy and Margo Millar tour the warmup shelter with Jim Young - Photo by Rick Huziak

see Jupiter and the Andromeda Galaxy. We were pleased to see many people coming from neighbouring towns, a good sign that our public notices in those locations are effective.

Fifteen of our members participated with 10 telescopes of various shapes and sizes, from a compact reflector to large Dobs, and three University students

We ended up with great weather and excellent skies for the Open House evening, which ran until 10:30 pm, when the last of our guests straggled out. The sky was beautifully clear, with the Milky Way looking not as a hazy lane but as multitudes of tiny stars. We could hear our guests oohing and aahing at their views through the telescopes!

I estimate about 120 to 150 people came to look through the scopes, including several youngsters about 9 or 10 years old who came with their parents and were very enthusiastic about getting the chance to look at craters on the Moon, or to

manned three more telescopes in the Roll-Off. A pleasant surprise was the first-time visit by a distant member from Alberta, Margo Millar and her husband Andy. Margo and Andy had been in Saskatoon visiting with Bill Hydromako and decided to come out and see the club's facilities.

All in all, it was a very successful and productive day. Many thanks to all those who brought their scopes or otherwise participated. We encourage members to come out each year, meet your fellow astronomers, and help promote the Sleaford Observatory to our adoring public!

Canada's IYA Image Team Wants YOUR Photos

Canada's International Year of Astronomy Image Team is looking for photos to include in a series of public displays of Canadian astronomy images that will be held across the country during the year 2009. So start searching your files for your favourite photos now!

Deadline for submissions is November 30, and the Image Team is looking for a wide range of material, including "striking images of astronomical phenomena, astronomy equipment, and people participating in astronomical activities."

Images should be sent by e-mail in JPEG format to: iyaimages@polaris.phys.yorku.ca

IMPORTANT! Please read the complete submission details online before sending anything. Full details can be found at the Canadian IYA Website:

http://www.astronomie2009.ca/index.php?option=com_content&view=article&id=61%3Asubmit-your-images-to-the-canadian-image-database&catid=1%3Alatest&Itemid=2&lang=en

Taking Back the Night

by Christine Kulyk

“The stars belong to everyone,” as we were famously reminded by Helen Sawyer Hogg, one of Canada’s most influential astronomers during the past century. But that birthright is under attack nightly by the excess lighting that plagues our cities and towns. In a truly enlightened society, we realize that we can enjoy the benefits of electric power without letting it spill into the night sky where it is not needed or wanted.

As Rick Huziak eloquently demonstrated at our October meeting, several highly dedicated and savvy Saskatchewanians are making great inroads at raising awareness about light pollution among both politicians and the general public. To read more about it, go to the Saskatchewan Light Pollution Awareness Website:

<http://www.ras.sk.ca/lpc/lpc.htm>

There, you will find a wealth of info on how you can get into the action! Here are some ideas for starters:

- Send an e-card to relevant politicians regarding the problem of excess Casino lights:
http://www.livingskiescasino.com/Living_Skies/eCard.html
- Sign a petition:
http://www.livingskiescasino.com/Living_Skies/Petition.html
- Get inspired by reading about what other people are doing in Saskatchewan:
<http://myotherlife.net/slpac>
- Download a copy of the “Saskatchewan Light Pollution Abatement Brochure”:
<http://www.ras.sk.ca/lpc/promotions.htm>
- Inspire others with a PowerPoint presentation:
<http://www.ras.sk.ca/lpc/promotions.htm>
- Support light-pollution awareness efforts in Saskatchewan by sending \$10 to REPAS (the Rural Environment Preservation Association of Saskatchewan). Write to: REPAS Inc., c/o PO Box 35, Site 308, RR3, Saskatoon, SK S7K 3J6. (\$10 will get you a membership.) For further details, see:
<http://www.repas-inc.ca>

The advertisement for All-Star Telescope displays several products with their respective prices and availability:

- Celestron CPC and NexStar SE**: always in stock
- 15 x 70 SkyMaster Special**: \$119.95
- Binocular Highlights**: Star Atlas 2000, Pocket Sky Atlas, Celestial Sampler
- Antares 12" Dob**: Clearance Special \$699.95
- TeleVue 127is**
- Tele Vue Ethos**: 13mm & 8mm -
- Pentax Eyepieces**
- Celestron 130 SLT**: Regular \$499.95, Special - \$449.95

All-Star Telescope
31020 Hwy. 2A, Didsbury, AB
1-866-310-8844
www.All-StarTelescope.com



The Planets This Month, November 2008

by Murray D. Paulson, RASC Edmonton Centre

Mercury spends most of November heading away from Earth to destinations around the far side of the Sun. On November 25, Mercury arrives at superior conjunction, and if you could see it through the intense glare, it would pass 19 arcminutes below the Sun. Over the month of November, Mercury does brighten as it gets closer to the Sun and its disk becomes full. At the beginning of the month, Mercury shines at magnitude -0.8 and has a 5.5" gibbous disk. In the week before conjunction, Mercury will brighten to magnitude -1.2 and will show a 4.65" full disk. After conjunction, Mercury makes a leisurely ascent into the evening sky.

Venus sits low in the southwest just after sunset, shining at magnitude -4.0. You have to have a clear southwest horizon to see it. It is bright enough that you can sweep it up in binoculars in bright twilight. At sunset, Venus sits almost 7 degrees off of the horizon, but the kicker is that it sets 1.5 hours after the Sun. In the eyepiece, it will display a 14" gibbous disk. Venus is down in the bottom eastern corner of Ophiuchus, just above the back of the scorpion. Over the next month, it will move into Sagittarius, so it is not going to get any higher! It will expand in size to 16.9" and brighten slightly to magnitude -4.1 by early December. One highlight will be the conjunction of Jupiter and Venus on November 30. Venus will sit 2 degrees below Jupiter, with Jupiter shining at magnitude -1.9. They will be closer than 3 degrees apart from November 28 to Dec 2. The pair sets 2 hours after the Sun, but they will never be far from the southwest horizon. Just after sunset, Venus will sit 10 degrees above the horizon, and they will be 20 degrees west of due south.

Mars is lost in the glare of evening twilight. It is located in Libra and will move off into Scorpius by the end of the month. Mars will be in conjunction with the Sun on December 5.

Jupiter starts off November shining at magnitude -2.1, with an angular diameter of 36". At the time, it



sits in eastern Sagittarius, just a little east of the handle of the "teapot." It is low in the sky in the southwest when twilight deepens enough that you can see it. Binoculars will help in the hunt. Although it is low, it only sets some 3:45 hours after sunset. By month's end, Jupiter will shine at magnitude -1.9 and will show a 34" disk in the eyepiece.

Saturn is in the morning sky, rising at 2:20 am in the first week of November. It sits below Leo and shines at magnitude 1.0. In the eyepiece, it subtends 16.5". By month's end, Saturn will grow to 17" and will rise at 12:30 am, but the thing that is worth getting up for is the razor-thin inclination of the rings. On November 30, the rings are inclined at -1.0 degrees. (The rings start off the month at -2.0 degrees.) They will dip to a slightly shallower inclination over December before they tip back up in the new year.



Uranus starts off November shining at magnitude 5.7 and will fade slightly to magnitude 5.8 by the beginning of December. It will pass within 5 arcminutes of magnitude 5.5 star 95 Aquarius at the end of November. In the eyepiece, you will see Uranus' 3.5" disk with the nice comparison to the Airy disk of the star. Uranus sets 8.5 hours after the Sun and transits just under 4 hours after sunset. It is still well placed for early evening viewing.

Neptune has just moved around the elbow of retrograde and is now moving east again. Shining at magnitude 7.8, it is an easy binocular object 2 degrees above gamma Capricornus. In the eyepiece, it is a 2.3" blue-green disk. You have to catch it early in the evening. Even though it sets at midnight, it transits the meridian just after 7:00 pm, sitting 21 degrees above the horizon. By the end of the month, it will set at 10:00 pm. Use the Finder Chart in the *Observer's Handbook* to locate Neptune among the stars of Capricorn.

The Messier, H-400 & H-400-II, FNGC, Binoc & EtU Club

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

MESSIER CLUB

Certified at 110 Objects:

R. Huziak, G. Sarty, S. Alexander, S. Ferguson, D. Jeffrey, D. Chatfield, B. Christie, K. Noesgaard, M. Stephens, B. Hydomako, T. Tuomi, L. Scott, G. Charpentier, B. Johnson, M. Clancy, L. Dickson, B. Burlingham

Ken Maher	109	
Ron Waldron	105	
Norma Jensen	100	
Brent Gratias	96	
Mike Oosterlaken	93	
Kathleen Houston	85	
Margo Miller	77	
Wade Selvig	75	
Garry Stone	57	
Ellen Dickson	Up!	32
Jeff Swick	24	
Barb Wright	23	
Bruce Brandell	5	
Katelyn Metanczuk	4	

FINEST NGC CLUB

Certified at 110 Objects:

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

Larry Scott	Done!	110
Scott Alexander		97
Bill Hydomako		55
Sandy Ferguson		23
Mike Oosterlaken		20
Donna-Lee May		14
George Charpentier		13
Ken Maher		10
Mike Clancy		7

Chatfield BINOCULAR CERTIFICATE

Certified at 35 Objects:

M. Stephens, T. Tuomi, M. Clancy, R. Huziak, K. Maher

Brent Gratias	Done!	36
Mike Oosterlaken		32
Anna Clancy		24

EXPLORE the UNIVERSE

Certified for Certificate:

M. Clancy, T. Tuomi, K. Maher, B. Gratias

Katelyn Metanczuk	15
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HERSCHEL 400 CLUB

Certified at 400 Objects:

D. Jeffrey, R. Huziak, D. Chatfield

Tenho Tuomi	Up!	375
Gord Sarty		251
Scott Alexander		117
Mike Oosterlaken		68
Sandy Ferguson		18

HERSCHEL 400-II CLUB

Certified at 400 Objects:

Darrell Chatfield	Up!	315
Rick Huziak		211



The Messier & Finest NGC lists can be found in the *Observer's Handbook*.

The Explore the Universe list is available on the National website.

The Binocular List will be available at each general meeting or can be mailed out on request to distant members.

On-line Messier and Finest NGC lists, charts and logbooks – check out:

<http://www.rasc.ca/observing>

On-line Herschel 400 List – check out the official site at:

<http://www.astroloague.org/al/obsclubs/herschel/hers400.html>

Donna-Lee May chose to get her Messier Certificate through the Edmonton Centre. Good luck on the FNGCs.

Observer's Group Notes

by Larry Scott



Not much of a report this month, I'm afraid. Made it out to Sleaford on October 1 with Darrell and Rick (who was out with an Astro class). We got to show a few things to the students after the class, which is always nice. We stayed out for awhile after the students left, and the boys got into a fierce Herschel 400 competition. I believe Darrell took the evening, with one more object than Rick.

The Observers Group scheduled for October 24 was cancelled due to weather conditions. Will undoubtedly have better luck in November. Next scheduled Observers Group is November 21. Moonless skies run from about November 19 till December 4. After that, the Moon will be intruding again.

See you at Sleaford.