

PeGASus
Newsletter of the
Royal Astronomical Society of Canada
Prince George Centre

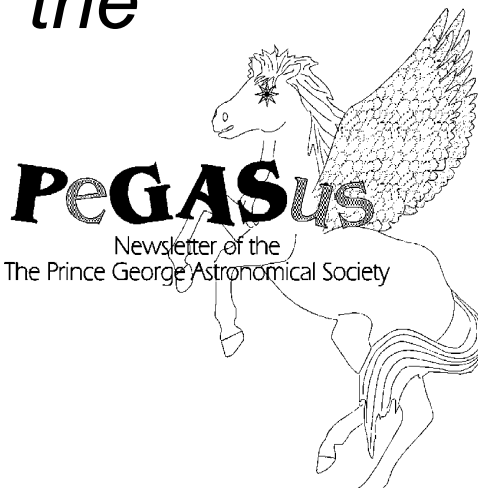
April 2005

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**The RASC-PG meets next at 7:30 pm
Wednesday April 27, at The Observatory**

This Month's meeting

Dr. Montgomery of UNBC will give brief introduction to waves and how they are used in red shifting and other astrophysical theories.

Important notice

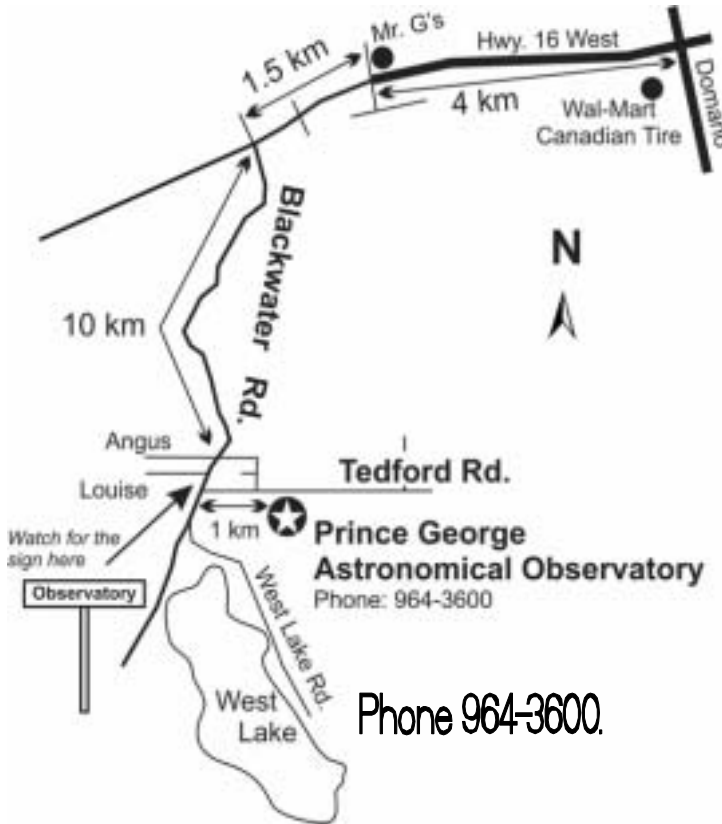
**National President Peter Jedicke will be here on May 17. 7:30 pm at the Observatory
Peter will talk about why Hawaii is the centre of the astronomical world today.**



the PeGASus

is published monthly by the
Royal Astronomical Society Canada
Prince George Centre

Our pursuits are out of this world.
Our activities are astronomical.
Our aim is the sky.



Contributions to the newsletter are welcome.

Deadline for the next issue is

May 14

PeGASus Editor

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RASCPG
Executive, 2004/2005

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you can renew your membership at
www.rasc.ca/princegeorge

Proposed By-law Changes – Annual Meeting – May 2005

Section 1. The timing of when fee increases take effect (proposed by the Constitution Committee)

At the present time there is a specific direction in the Society's By-law that specifies a waiting period of two months between the time a change to the Society's membership fees is approved by the membership and the implementation of such a change. This means that a fee increase approved on July 1 cannot be implemented until September 1.

The Constitution Committee believes that the original intent of this provision was to provide adequate notice of such changes under a decentralized and outsourced membership processing system. Under the current system, the Society is in a position to implement a fee change much more quickly both on the eStore and through our control of the membership process.

On the advice of the Executive Secretary, the Constitution Committee therefore proposes that a By-law change be made to allow fee increases to take effect upon such schedule as may be deemed appropriate. An appropriate grace period will be allowed for membership applications "in transit." This will simplify administration and permit the Society to benefit more rapidly from any fee increases that may be approved.

Motion #1: That article 3.05(2) be modified to read as follows (the proposed amendment is underlined)

3.05 (2) Any member of the Society who proposes an ordinary resolution

of the Society to change any of the annual Society's membership fees shall give notice of such resolution to the Secretary of the Society at least 90 days prior to the meeting of the Society at which it is proposed to move the resolution, which notice shall specify the change proposed. The agenda for any meeting at which it is proposed to move any such resolution shall include the specifics of the proposed resolution. At the meeting at which the resolution is considered, the resolution may be amended without further notice to the members of the Society. Any resolution to change the membership fees of the Society shall take effect immediately or at such time as may be specified in the resolution.

Section 2. Proposed corrections to By-law #1 (proposed by the Constitution Committee)

The Constitution Committee has identified several errors in the by-law #1 that require the following corrections.

Motion #2: That the following errors be corrected in Bylaw #1.

a) 3.04(5) Membership of more than one Centre. To allow for membership of more than one Centre, we propose the following change to the second sentence of 3.04(5).

Each member shall have only one membership in the Society. However, a member of one Centre may be elected an associate or affiliate member of another Centre in accordance with the by-laws of the second Centre.

b) 5.02(2) The word 'President.' is

out of place and should be removed.

c) Changes to 6.04 and 6.08 are designed to correct errors propagated during the 1999 By-law revision where paragraph 6.04 (2) was inadvertently struck and paragraph 6.08 (2) was not amended as intended.

6.04 ELIGIBILITY FOR OFFICE

(1) Every member who is not less than twenty-one years of age has the right to stand for appointment as, and to hold the position of, Honorary President of the Society. Every voting member who is not less than twenty-one years of age has the right to stand for election or appointment to, and to hold, any other office of the Society.

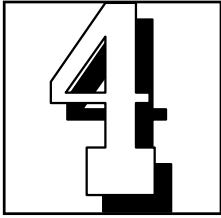
(amended, July 1999)

(2) No person who is an elected officer of the Society may simultaneously be the President, Secretary, Treasurer, or a National Council Representative of a Centre.

{ (2) The first term of office of any member appointed as one of the editors referred to in Article 6.02 shall normally be five years. At the end of that time the appointment is renewable for a mutually agreed term. } { to be deleted }

6.08 TERMS OF OFFICE

(2) The first term of office of any member appointed as one of the editors referred to in Article 6.02 shall normally be five years. At the end of that time the appointment is renewable for a



Coming Events

April 23	NOVA workshop	7:30 pm	Observatory
April 25	Tour - Nechako Valley Sec. School	7:30 pm	Observatory
April 27	General Meeting: <i>Guest Speaker - Dr. Mann</i>	7:30 pm	Observatory
April 29	Tour - Cubs	8:30 pm	Observatory
May 7	NOVA workshop	7:30 pm	Observatory
May 11	Executive Meeting (SpeeDee, 5th & Brunswick)	7:30 pm	SpeeDee
May 17	Nat. RASC President Peter Jedicke topic: <i>Astronomy in Hawaii: Research, Outreach & Observing</i>	7:30 pm	Observatory
May 20-23	RASC National General Assembly 2005 http://www.rasc.ca:8080/rasc/index.jsp		Okanagan
May 25	General Meeting: <i>Guest Speaker - Dr. Montgomery</i>	7:30 pm	Observatory
May 28	Tour Girl Guides - G.U.E.S.T. approx 75 people	9:30m pm	Observatory
June 4	Year End BBQ.	5:00 pm	Observatory

Open Houses run every Friday evening March through May

Members Nights run every Saturday evening (weather permitting) February through May

From page 5

mutually agreed term.

d) Changes to 6.19 are put forward to correct a reference error

Proposed By-law Changes – Annual Meeting – May 2005

These proposed changes to the Society's By-law #1 were approved at a meeting of National Council on Saturday, February 26, 2005 (2005-02-26) and will be presented for ratification at the Society's Annual Meeting to be held on May 22, 2005 (2005-05-22) in Kelowna, .

6 The Royal Astronomical Society of Canada / 2005 Annual Meeting (to 6.18) and to clarify the language currently in By-law #1.

6.19 VACANCY OF AN OFFICE

(1) An elected office becomes vacant by reason of death, resignation, or removal under Article 6.198(1), or if the holder of the office ceases to be eligible to hold office under Article 6.04. In such case, another eligible member of the Society may be elected by special resolution of the Council to fill such vacancy for the remainder of the term of office. In the event that a position must be filled prior to the next regularly scheduled meeting of the Council, the Executive Committee may do so on behalf of the Council under Article 7.08(2).

(amended, July 1999)

(2) An appointed office becomes vacant by reason of death, resignation, or removal under Article 6.198(2), or if the

holder of the office ceases to be eligible to hold office under Article 6.04 { In such case, removal under Article 6.19(2), or if the holder of the office ceases to be eligible to hold office under Article 6.04.} In such case, another eligible member of the Society may be appointed by ordinary resolution of the Council to fill such vacancy. In such case, the appointment shall be deemed to have been made under Article 6.08 for such term as is provided therein. In the event that a position must be filled prior to the next regularly scheduled meeting of the Council, the Executive Committee may do so on behalf of the Council under Article 7.08(2). (amended, July

Please note { bold } indicates : to be deleted

1999)

Section 3. Proposal to explicitly allow official notices to be sent to members by other than postal mail.

Presently there is no definition in By-law #1 defining the methods that can be used to communicate (provide “notice”) to our members. Traditionally, “notice” has been only by postal mail, however today there are other less-expensive options such as Internet email and this amendment gives the Society the flexibility to use email and other communication options.

Motion #3: That article 1.01 of Bylaw No. 1 be modified to add the following definition: “notice” means a notification delivered either in writing by hand, mail, facsimile, or electronically to the member’s then-current address of record.

The newly formed **Task Force 21 Committee** made its first report at the February Council Meeting. The By-law changes in section 4 and section 5 were proposed by this Committee and approved by National Council.

Section 4. A change to the procedure for changing the membership fees and a change from a fixed distribution of membership fees between the Society and the Centres to a flexible distribution.

a) Procedure to change membership fees
Presently the membership fees are set entirely by the membership following a motion proposed by any individual member, with sufficient

notice, at any meeting of the Society. National Council has the responsibility of administering an annual budget approaching half a million dollars, yet under the present By-law #1 it has no input or authority to propose or set appropriate membership fees commensurate with the costs of servicing the membership. This proposal provides the National Council with the sole authority to set the Society’s membership fees.

b) A change from a fixed to flexible distribution of the membership fees between the Society and the Centres

Presently 60% of membership fees for members attached to a Centre are retained by the Society and 40% are retained by the member’s Centre — a ratio that does not reflect the increased costs and greater number of member services taken on by the Society in recent years.

Some examples include:

- National distribution of the *Observer’s Handbook*
- SkyNews* bulk subscription
- Public liability insurance
- National membership renewal system

The Society has also had to bear the significantly increased costs of postage, public liability insurance, employee salary increases,

etc., all without changing the Society share of the membership fees. Centres have had to provide less of these services while retaining the same share of the fee. It’s time to adjust the ratio so that the funds available are more equitably shared and to make it easier to maintain the share at equitable levels as costs and services

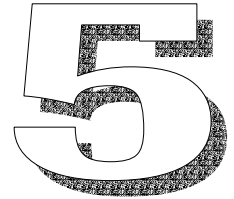
change. Another by-product of the fixed ratio is that fee increases are required to be higher than necessary because the Society realizes only 60% of the increase. In effect the Centres are provided with a fee increase that they may not require to support their operations.

It is important to note that Centres presently have the ability to set their own fees through either positive or negative surcharges. To protect the Centres from fee reductions, this proposal requires that any change in the fee distribution resulting in a reduction of the Centre portion of the fee would require adoption by special resolution (two-thirds vote) of National Council. Fees for unattached members will remain at the full membership fee with the Society retaining 100% of the fee.

With these amendments, through the elected officers and Centre-elected National Council Representatives, members will still have democratic control over fees and the Society/Centre fee distribution; however, these decisions will be made by National Council, the body that has the responsibility for managing the affairs of the Society.

Motion #4: That articles 1.01, 3.05, 3.07, and 8.01 be amended as indicated below.

7 The Royal Astronomical Society of Canada / 2005 Annual Meeting L
Added to 1.01 DEFINITIONS
(r) “Society portion” means the





amount of the annual membership fee that the Society is entitled to,

(q) "Centre portion" means the

amount of the annual membership fee that a Centre is entitled to.

3.05 SOCIETY FEES

(1) The annual Society membership fees, for ordinary and youth members, including the distribution rates of the Centre and Society portions, and the life membership fee shall be determined

from time to time by ordinary resolution of the Council **{and of the Society}**. The Centre portion can only be reduced from its then prevailing amount by special resolution of the Council. No fee shall be payable for honorary membership in the Society. (amended, July 1993)

{ (2) Any member of the Society who proposes an ordinary resolution of the Society to change any of the annual Society's membership fees shall give notice of such resolution to the Secretary of the Society at least 90 days prior to the meeting of the Society at which it is proposed to move the resolution, which notice shall specify the change proposed. } The agenda for any meeting of the Council at which it is proposed to move any such resolution shall include the specifics of the proposed resolution, including the proposed Centre and Society portions of the fee. At the meeting at which the resolution is considered, the resolution may be

amended without further notice to the members of the **{ Society } Council.** Any resolution to change the membership fees of the Society shall take effect immediately or at such time as may be specified in the resolution. (new, July 1993) (amended, July 1999)

(6) The Society is entitled to **{ sixty percent }** the Society portion of the annual Society membership fees for all ordinary and youth members attached to Centres, and each Centre is entitled to **{ forty percent }** the Centre portion of the annual Society membership fees of all

ordinary and youth members attached to it. (amended, July 1999)

(7) Annual membership fees and life membership fees for members attached to a Centre shall be collected by the Society, or instead by the Centre if it so chooses. Each Centre that collects fees shall submit to the Society, monthly, the **{ Society's } Society** portion of membership fees collected, together with a report listing the names and addresses of the members who paid membership fees during that period, the amounts paid, and such other related information as the National Council may determine. The Society shall submit to each other Centre, monthly, that Centre's portion of membership fees collected, together with a report listing the names and addresses of the members who paid membership fees during that period, the amounts so paid, and such other related information as the National Council

may determine. (new, July 1999)
(9) Each Centre is entitled to receive for its own use from the Society on or before 1 March in every year an amount, in respect of every life member attached to it as of the previous 31 December, equivalent to **{ forty percent }** the Centre portion of the then prevailing annual Society membership fee for an ordinary member.

(amended, July 1999)

8.01 ANNUAL MEETING

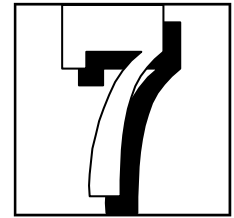
(2) At least thirty days before the date of the annual meeting, the Secretary shall send to each voting member of the Society **{ a copy of any proposed change to the Society's annual membership fees referred to in Article 3.05(2), }**

Section 5. Centre practice in the use of basic surcharges (proposed by the Task Force 21 Committee)

It has been realized that many (perhaps all) Centres that collect basic surcharges appear to use these surcharges in such a way that is contrary to By-law #1. Specifically, clause 3.07 (4) states that basic surcharges must be optional unless used only to provide services directly related to member rights and/or to pay for meeting space for the Centre and Centre Council meetings. It should not presently be used, for example, to operate an observatory and at the same time be mandatory.

As far as we are aware there are no Centres where the basic surcharge is optional. This is confirmed by the fact that the National Office membership-handling software (and the eStore) does not support optional basic surcharges. There have been no complaints about this

Astronomy Day 2005



Prince George Centre decided to go "grandiose" this year and have a major event at our observatory. The event was scheduled from 13:00 to 23:00 - the first guests arrived at 10:20. ;-)

We had "exploration" tables set up for people to look at. These held a variety of objects suitable for kids and parents to touch and hold and experiment with. One table had an earth globe, lamp and a Styrofoam "moon" ball along with instructions from Skyways on how to create the phases of the moon and seasons. On another table we had a celestial sphere globe and pairs of magnifying lenses for building a simple refractor. We set up different types of telescopes around the room and put signage on them explaining how they worked. We also had homemade spectrometers on the tables for people to take a look at the different light fixtures with.

Wayne set up a scope with solar filter outside and provided an opportunity for solar viewing whenever the sun peeked through the clouds. Although the sun was visible intermittently, the moon did not make an appearance during the afternoon.

Maurice ran tours of the observatory. People really enjoyed looking at the 24" telescope and noticing how "homemade" it is. (It incorporates rail car wheels, giant pulleys, sewer pipe telescopes, farm silo dome, truck differential, etc.)

Several videos were shown on the wall using the data projector. The viewing area was 12'x12' so it really made an impression with the lights off and sound system cranked!

Part of the day was a "telescope workshop" where we invited people to bring their own scopes out and we would help them sort out how to use them. Only one lady actually showed up with scope in hand but she was extremely happy that we helped her out.

Annette, Hugh and Jim A. were kind enough to run the pop and chip concession stand to bring in some extra donations.

Luckily the weather cleared up around 21:30 and everyone enjoyed a nice view of the moon, Saturn, Jupiter and some globular clusters through the 24" scope and several smaller telescopes set up outside on the viewing pad.

All in all it was an excellent day with many people commenting on how great everything was and we should do it more often, etc. I believe we had about 110 people come out throughout the course of the day. This was excellent attendance considering the poor weather.

Thanks for all your help everyone!

Brian Battersby

Pictures on Page 10

Proxy

Your name: _____ (please print)

I, being a voting member in good standing of The Royal Astronomical Society of Canada (the RASC) hereby appoint proxy holder:

_____ vote on my behalf at the Annual Meeting of the RASC to be held on May 22, 2005 and at any adjournments. I hereby revoke any Proxy that I have previously given for this meeting.

I understand that the following instructions are guidelines for the proxy holder only and that, having discussed these issues with me, the proxy holder will use best judgement when applying my proxy.

Motion – That the Society's membership fees be increased by \$5 per year for ordinary members, \$3 per year for youth members, and \$100 for life members

For: _____ Against: _____ Holder's Discretion: _____

By-law #1 Amendment - Section 1 – The timing of when fee increases take effect (see explanatory material for details).

For: _____ Against: _____ Holder's Discretion: _____

By-law #1 Amendment - Section 2 – Proposed corrections to Bylaw #1 (see explanatory material for details).

For: _____ Against: _____ Holder's Discretion: _____

By-law #1 Amendment - Section 3 – Proposal to explicitly allow official notices to be sent to members by other than postal mail (see explanatory material for details).

For: _____ Against: _____ Holder's Discretion: _____

By-law #1 Amendment - Section 4 – Proposal to change the procedure for changing the membership fees and a change from a fixed distribution of membership fees between the Society and the Centres to a flexible distribution (see explanatory material for details).

For: _____ Against: _____ Holder's Discretion: _____

By-law #1 Amendment - Section 5 – Proposal to change the Centre practice in the use of basic surcharges (see explanatory material for details).

For: _____ Against: _____ Holder's Discretion: _____

Motion - Appointment of Auditors: Tinkham & Associates

For: _____ Against: _____ Holder's Discretion: _____

I understand that the proxy holder has the right to also withhold my proxy if relevant new information is presented at the annual meeting that addresses my concerns and that the withholding of my proxy would be in my best interest. I also understand that

meeting that addresses my concerns and that the withholding of my proxy would be in my best interest. I also understand that my proxy holder will provide me with a summary of the results, how my proxy was voted, and, in the event my proxy was withheld, an explanation of why it was withheld.

Date: _____ Signature: _____
(for May 2005 Annual Meeting)

Notice to members regarding Proxies:

Dear RASC member,
The best way to participate in the Annual Meeting 2005 is to attend the meeting and to vote in person. This allows you to cast your vote, based both on the opinions that you held prior to the meeting and also on the discussion that takes place at the meeting itself.

If you cannot attend the Annual Meeting, but wish to participate, you may ask someone else who will be at the meeting to cast a vote on your behalf. That person (referred to as your "proxy holder") may vote for you only if she (or he) is a **voting member in good standing** of the RASC and has been properly appointed by you by properly completing, dating, and signing the form of Proxy on the reverse side of this page. This should only be done after you have reviewed the issues with your intended proxy holder and he/she has agreed to act on your behalf in the manner indicated. A person can refuse to be your Proxy holder if they

feel they cannot in good conscience represent you as you have indicated.

In order to be valid, your Proxy must, at a minimum, bear your name, the name of the proxy holder, your signature, and the date when you sign the Proxy. Give, mail, or fax the completed Proxy form to your proxy holder by **May 8, 2005**.

If you personally do not know anyone attending the General Meeting, you may wish to contact one of the members in good standing listed on the attached, to determine if one of them is willing to act as your proxy holder. Your proxy holder may not transfer your proxy to another person. A list of volunteer Proxy Holders is located on the Motion Explanation sheet. You may instruct your proxy holder how to vote on your behalf, either by completing the appropriate sections on the form or by attaching clear written instructions. In spite of any instructions that you give to your proxy holder, she or he **may withhold** your Proxy on any motion, if relevant new information is presented at the annual meeting that addresses your

concerns and that the withholding of your proxy would be in your best interest.

After the AGM the proxy holder will provide you with summary of the results, how your proxy was voted, and in the event your proxy was withheld, an explanation of why it was withheld.

Choose your proxy holder wisely and follow up with them after the annual meeting.

Proxies may be exercised for (i) the fee increase, (ii) the proposed By-law amendments, (iii) the appointment of auditors, and (iv) any other business that may properly come before the meeting.
(for May 2005 Annual Meeting)

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Instructions for Proxy Givers to Proxy Holders

(members in good standing)

If you personally do not know anyone attending the Annual Meeting, you may wish to contact one of the members in good standing listed below to determine if one of them is willing to act as your proxy holder. Your proxy holder may not transfer your proxy to another person.

Prince George RASC members registered for the GA as of April 20:

Brian Battersby
Allan Whitman

Please send all proxy forms to:
Brian Battersby
4556 Bauch Ave,
Prince George, BC
V2M 5X4

Or bring them to the next general meeting
April 27 , 7:30pm at the observatory

Download the official proxy form at
<http://www.rasc.ca/membersonly.htm>
Contact Brian at blbattersby@shaw.ca
for the login id and password if you do not already have them.

The forms have also be mailed to each member in the upcoming JRASC.

The form on page 8/9 be a legal proxy if you can not access any other form in time.

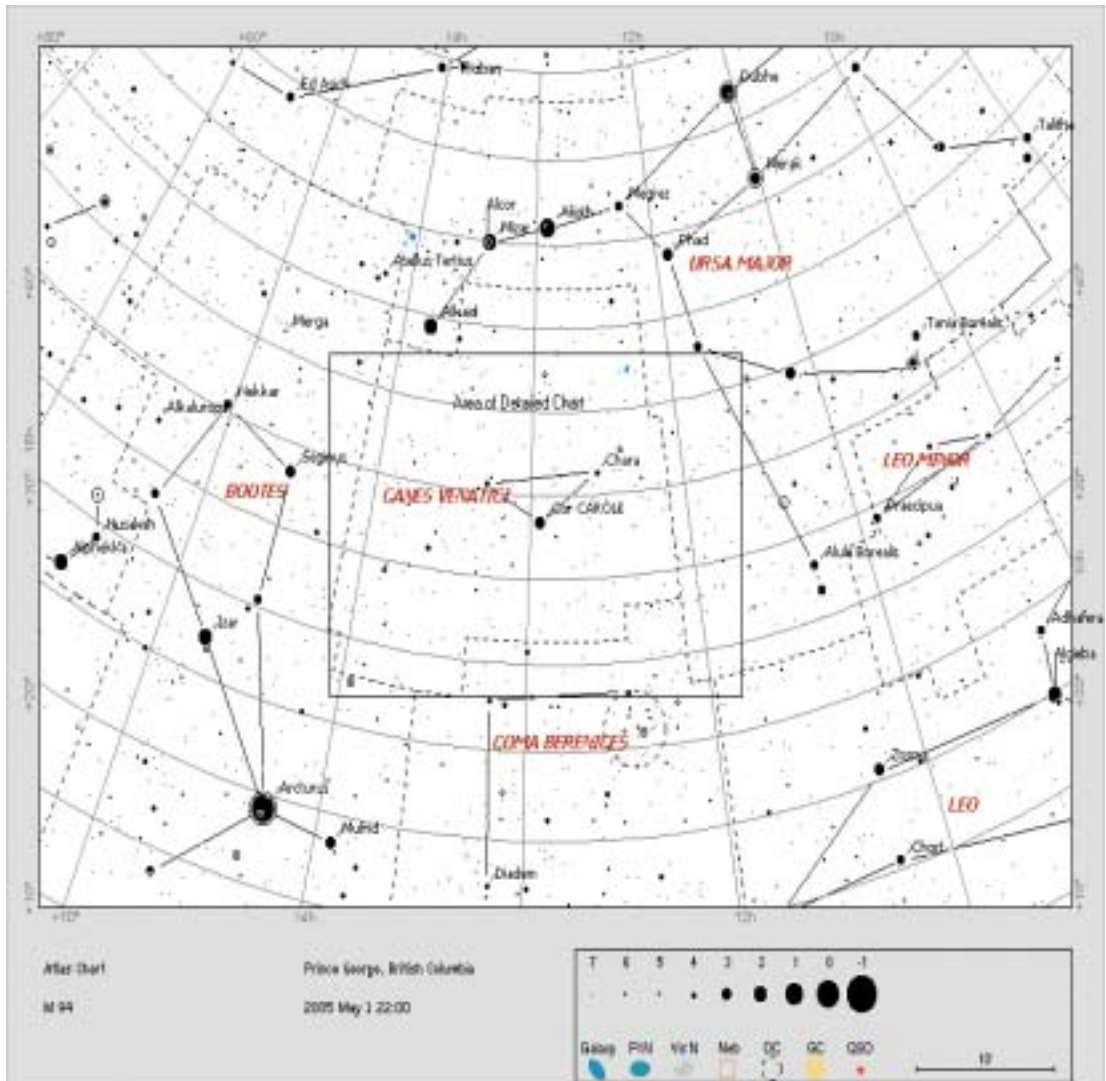
Astronomy Day 2005

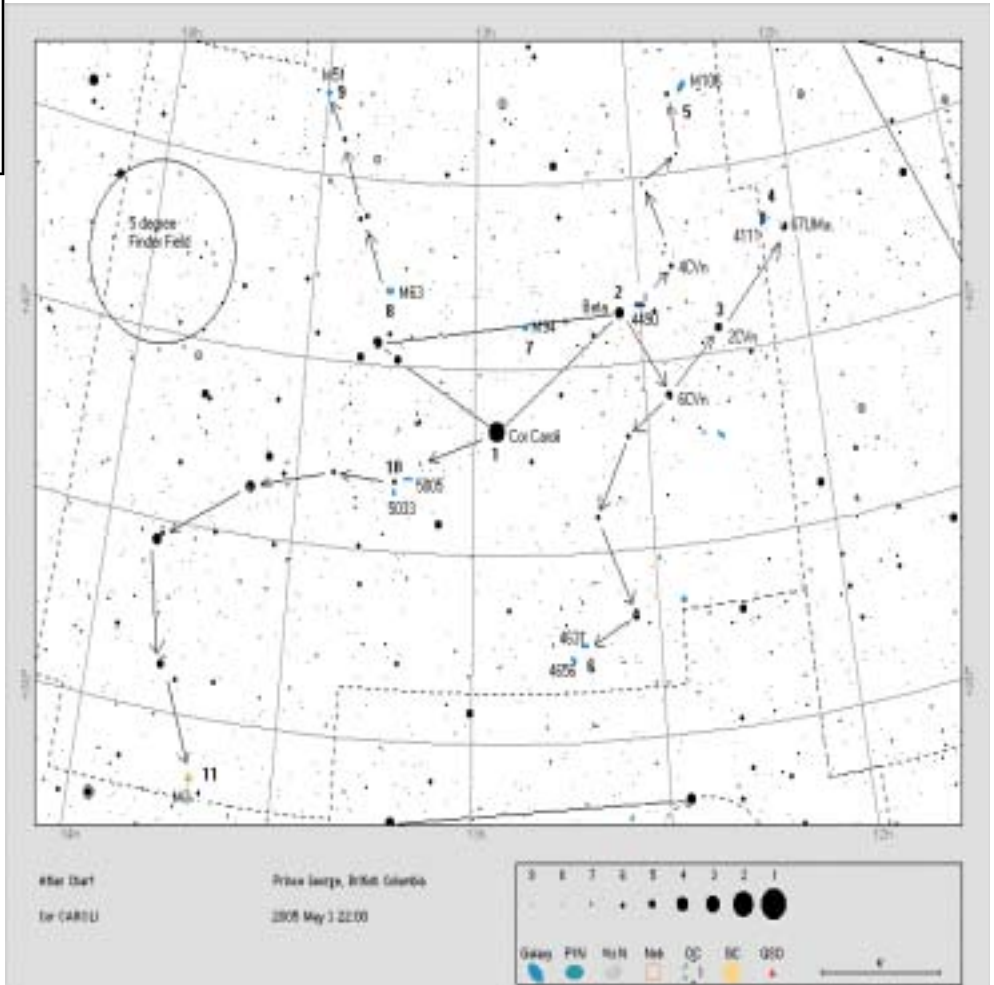
Story on page 7



May Starhop in Canes Venatici

by Doug Wayland





May Starhop in Canes Venatici

by Doug Wayland

Star chart is from Sky Tools, North is up, West is to the right.

Technical information is from Night Sky Observers Guide by George Robert Kepple and Glen W. Sanner and from Sky Atlas 2000 Companion by Robert A. Strong and Roger W. Sinnott

The **bold** numbers on the map correspond with each numbered star hop in the text. It is important to know your directions in the finder scope and telescope eyepiece. You can do this by nudging your scope in a known direction while looking in the eyepiece,

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note in which part of the field the stars are appearing. That is the direction in which you were pushing your scope. You may have to do this with both finder and telescope eyepiece. Also knowing the true field of view of your eyepiece helps a lot. Usually a low power of 35x is one degree or more. To figure it out for your particular scope, eyepiece configuration divide the apparent field of the eyepiece by the magnification it gives you with the scope you are using. ie: True field = Apparent field divided by magnification.

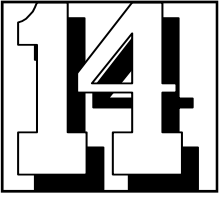
To see all the galaxies in this tour, this star hop would probably be best done in late April, early May when there is no moon, because the next no moon period will be when we truly don't get astronomical darkness. However the brighter Messier galaxies may be seen without really dark skies.

1) Lets begin with the bright star **Cor Caroli** or **Alpha CVn**. This is a double of unequally bright yellowish stars that are fairly close together. They look good at low power. The primary is mag 2.9 while the secondary is mag 5.5 and separated by 19.4" at a position angle of 229 degrees or SW from the primary.

2) From Cor Caroli shift 5 degrees NW to Chara or Beta CVn. Center this star in your low power eyepiece. While looking in the eyepiece move the scope slowly 3/4 degrees NW and you should see galaxy **NGC 4490** slide into view. Now increase the power. In my 8" SCT at 144x, I had an interesting view of two interacting galaxies. 4490 was very obvious and dimmer NGC 4485 was situated just N of the W end of it. You will need dark skies to see 4485. NGC 4490 is about 27 million ly away.

3) Our next target, **2CVn**, forms the west end of a "V" formed with Beta and 6CVn. This is a remarkable double star consisting of a fairly bright mag 5.8 yellowish primary and a dim mag 8.1 blue secondary close by on the west side. Separation is 11.4" at a PA of 260 degrees. This looked good in my scope at 57x.

4) From 2 CVn use your finder to move your scope about 3 1/2 degrees NW to the fairly bright star 67UMa. Looking in a low power eyepiece, from this star shift your view slowly 1 degree east to find a thin sliver of a galaxy, **NGC 4111**. This sliver is small and oriented in a NW, SE direction. It is situated 4' SW of a double star, where the dim secondary seems to point the direction to the galaxy. I liked the view at 144x in my 8" scope. You will need a dark sky to appreciate the view, but it is worth persevering for. NGC 4111 is about 37 million ly away.



5) For the next target, follow the zig-zag trail of stars from Beta CVn to find **M106**, a large oval shaped galaxy oriented NW, SE. At 90x, this view looked cool, with the galaxy situated 1/2 degree west of a bright star. M106 is about 35 million ly distant.

6) Starting from Beta again, go to 6CVN and follow the star trail south to the double star on the map. Put your finder about 2 degrees ESE of the double and look in a low power eyepiece to see the impressive galaxy **NGC 4631**. At low to medium power you should be able to make out another dimmer galaxy, **NGC 4656**, 1/2 degree SE of 4631. There are four stars trailing off the east end of 4631, leading you to the area just north of 4656. NGC 4631 is approximately 28 million ly away and NGC 4656 is about 29 million ly.

7) Beta is our main jumping off point again for our next target. Slide about 3 degrees east of that star and in an 8x50 finder you may make out the galaxy **M94**. Going to your scope eyepiece, you should see a bright round galaxy at the right angle corner of a triangle formed with it and two stars.

Bump up the power for a nice view. M94 is 120,000 ly wide and is 33 million ly away.

8) This time look for the grouping of four stars that are located on the east end of the triangle that forms the constellation, or move 4 degrees NE of Cor Caroli to find them. From the northern star of this group slide about 1 1/2 degrees north to locate the **Sunflower** or **M63** galaxy. Once found, increase the power to about 100x. This is a large oval glow with two dim stars off the west end. M63 is 80,000 ly wide and 24 million ly distant.

9) From M63 use your finder to move 2 degrees NNE to the even double, go another 2 degrees further in the same direction to the single brighter star. Then you could probably go to your low power eyepiece and continue panning a further 1 1/2 degrees on the same bearing to watch **M51** or the **Whirlpool** galaxy slide into view. This is actually two galaxies, with much smaller NGC 5195 perched immediately on the north side. From dark skies and medium power I can just see the whirlpool structure in my 8" SCT. Our 24" club scope gives a nice view of the whirlpool structure.

M51 is about 37 million ly away.

10) From Cor Caroli use your finder to pick up the loose grouping of stars about 3 degrees east. Put your cross hairs on the star that is indicated directly under the 10 on the map. Now look into a low power eyepiece and you will see that star as the almost right angle corner of a triangle formed with it and two galaxies. **NGC 5005** is 1/2 degree west of the star and **NGC 5033** is 1/4 degree south of that star. You may have to shift the star

to the east part of your field of view to be able to see the whole triangle. This scene sits in a field of widely spaced conspicuous stars. NGC 5005 is fairly bright despite its great distance of 47 million ly. NGC 5033 is 42 million ly away.



11) In your finder, follow the star hop east and south as indicated on the map to come to globular cluster **M3**, which should be visible in your finder as small round glow near some stars. Another way is to aim just under 1/2 way from Arcturus to Cor Caroli and fish around a little and you should be able to pick it up. I have done this with success several times. In my 8" at 90x, M3 is bright and spectacular with lots of its outlying stars resolved and a dense glowing core in the center. The cluster is perched in the center of a right angle triangle of fairly bright stars. A neat scene it is. M3 is 220 ly wide and 48 million ly away from us.

Good luck and enjoy the hunt.
Doug Wayland
djwayland@hotmail.com

Explanation of Fee Increase:

As per By-law Number One 3.05 (2), the following fee increase was proposed by a member at large within the 90 day deadline "Moved that the membership fees of the Society be changed as follows by:

David Lane and Mary Lou Whitehorne

- Ordinary members - increased from \$50 to \$55
- Youth members - increased from \$31.25 to \$34.25
- Life members - increased from \$1000 to \$1100

The new fees will become effective at such time as determined by the Executive Committee, but no later than required by the by-laws."

Notes:

- this notice of motion is being provided by the undersigned only because the 90-day notice requirement for such a motion precedes the Winter Council meeting - the motion can, of course, be amended at the Annual Meeting by any mover and seconder present.

The motion of support that council passed at the Council meeting of February 26, 2005 (2005-02-

26 NC051)

MOTION 05121

It was moved by Dave Lane and seconded by Scott Young that Council endorse the discussion of a fee increase at the 2005 Annual Meeting.

"Note: endorsement of Council for a fee increase is not required by the Society's By-Law. The motion to increase fees will be debated and may be amended at the Annual Meeting."