

# R.A.S.C. - BELLEVILLE CENTRE

NEWSLETTER - JANUARY, 2007

VOLUME 02 - NUMBER 01

Welcome to another newsletter of R.A.S.C. - Belleville Centre. Your most humble newsletter editor must apologize for not being able to keep up with previous recent issues but circumstances (moving to another apartment, illness, etc.) made some issues unavailable to be printed and distributed. Hopefully things may change.

Here is a list of useful information of meteor showers:

<u>Radiant</u>	<u>Duration</u>	<u>Maximum</u>
<u>January</u>		
*Quadrantids	28 December - 07 January	02/03 January
**Zeta Aurigids	11 December - 21 January	31 December - 01 January
**January Boötids	09 January - 18 January	16 January - 18 January
**Delta Cancrids	14 December - 14 February	17 January
**Canids	13 January - 30 January	24 January - 25 January
**Eta Carinids	14 January - 27 January	21 January - 22 January
**Eta Craterids	11 January - 22 January	16 January - 17 January
**January Draconids	10 January - 24 January	13 January - 16 January
**Rho Geminids	28 December - 28 January	08 January - 09 January
**Alpha Hydrids	15 January - 30 January	20 January - 21 January
**Alpha Leonids	13 January - 13 February	24 January - 31 January
**Gamma Velids	01 January - 17 January	05 January - 08 January
<u>February</u>		
**Aurigids	31 January - 23 February	05 February - 10 February
**Alpha Centaurids	02 February - 23 February	08 February - 09 February
**Beta Centaurids	02 February - 23 February	08 February - 09 February
**Delta Leonids	05 February - 19 March	22 February - 23 February
**Sigma Leonids	09 February - 13 March	05 February - 26 February
***Capricornids	13 January - 28 February	30 January - 03 February
***Sagittarids	13 January - 28 February	30 January - 03 February

\*\*\*Chi ( $\chi$ ) Capricornids 29 January - 28 February            13 February - 14 February

Guide:            \*            -Major Activity  
                                      -Beginner Level

                  \*\*            -Minor Activity  
                                      -Expert Level (i.e. - Quite Experienced Observer)

                  \*\*\*            -Daylight Activity  
                                      -Expert Level (i.e. - Quite Experienced Observer)

Planetary Observations (courtesy of R.A.S.C. - 2007 Observer's Handbook)

Mercury - in superior conjunction on 07 January and is poorly placed for observation until quite late in the month when it becomes visible, at magnitude -1.2, 7° below Venus in the evening twilight. Mercury of Mercury is moderately favorable for northern observers.

Venus - observed in the twilight sky low in the west-south-west, except that northerly observers view it in the south-west for the first half of the month. By the end of the month, northern observers will observe it setting in a full dark sky.

Mars - begins the month in the constellation of Ophiuchus and, on 11 January, moves into the constellation of Sagittarius. On 01 January, Mars rises in the east-south-east about 1.5 hours before sunrise.

Jupiter - reaches opposition on 05 January which will be unfavorable for observing from most latitudes in Canada. Jupiter spends the first eleven (11) months of 2007 in the constellation of Ophiuchus. Jupiter rises one (1) hour before morning twilight on 05 January when passing 5° north of Antares. By the middle of the month, Jupiter rises at 02:00 a.m. at latitude 30°s and by the end of the month, rises at 04:30 a.m. at 45°N.

Saturn - located in the constellation of Leo throughout the entire year. Saturn rises about half an hour after the end of evening astronomical twilight for northern observers. Saturn transits near 02:00 a.m. at an altitude of 60° at latitude 45°N, altitude of 75° at latitude 30°N, and an altitude of 45° (for northern observers) at a latitude of 30°S.

Full Moon:            Wednesday, 03 January, 2007  
                                      13h 57m

Last Quarter:        Thursday, 11 January, 2007  
                                      12h 45m

New Moon:            Friday, 19 January, 2007  
                                      04h 01m

First Quarter:        Thursday 25 January, 2007  
                                      23h 01m

Apogee:                Wednesday, 10 January, 2007  
                                      16h  
                                      404,335 kilometers

Perigee:                Monday, 22 January, 2007  
                                      13h  
                                      366,926 kilometers