

## R.A.S.C. - BELLEVILLE CENTRE JUNE - 2006

Welcome to another edition of the newsletter of R.A.S.C. - Belleville Centre. Your favorite newsletter editor hopes that many, if not all of you, will have been able to have got out at least once or twice since the last meeting to do some observing.

With the accession, advent, appearance, arrival and ingress of really serious warm weather, members should/could/would be able to get out to make observations over the course of the period of time since the last meeting. There is a rather annoying observational nuisance involving the presence (not presents) of excessive humidity and atmospheric haze that would appear to interfere with the pleasures of observing. May these members regale the rest of the members of the Club with Homeric tales and prodigious flourishes of their observing accomplishments since the last meeting.

Now for some much needed information that could be of some importance to some people over the next while:

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### Meteor Showers:

Date	Meteor Shower	Radiant (RA / Dec.)		Z.H.R.
03 June, 2006	tau Herculids	15h 12m	+39.0°	15
05 June, 2006	chi Scorpiids	16h 28m	-13.0°	10
07 June, 2006	Daytime Arietids	02h 56m	+23.0°	5 0
07 June, 2006	Daytime zeta Perseids	04h 08m	+23.0°	40
08 June, 2006	Librids	15h 09m	-28.3°	10
11 June, 2006	Sagittariids	20h 16m	-35.0°	30
13 June, 2006	theta Ophiuchids	17h 48m	-28.0°	0 2
16 June, 2006	June Lyrids	18h 32m	+35.0°	09
16 June, 2006	Corvids	12h 48m	-19.1°	13
28 June, 2006	Draconids	16h 55m	+56.0°	05
28 June, 2006	June Boötids	14h 36m	+49.0°	06
29 June, 2006	Daytime beta Taurids	05h 44m	+19.0°	25
09 July, 2006	epsilon Pegasids	22h 40m	+15.0°	0 8
14 July, 2006	July Phoenicids	02h 05m	-47.9°	3 0
16 July, 2006	omicron Draconids	18h 04m	+59.0°	03
22 July, 2006	Capricornids	20h 52m	-23.0°	04
29 July, 2006	South gamma Aquarids	22h 12m	-16.5°	30
30 July, 2006	alpha Capricornids	20h 28m	-10.0°	30

## 01 Moon: (courtesy of R.A.S.C. 2006 Handbook)

First Quarter:	Saturday, 03 June, 2006	23 hours 06 minutes
Full Moon:	Sunday, 11 June, 2006	18 hours 03 minutes
Last Quarter:	Sunday, 18 June, 2006	14 hours 08 minutes
New Moon:	Sunday, 25 June, 2006	16 hours 05 minutes
Moon at apogee:	Sunday, 04 June, 2006	02 hours      404,081 km
Moon at perigee:	Friday, 16 June, 2006	17 hours      368,919 km

## 02 Planets: (courtesy of R.A.S.C. 2006 Handbook)

Mercury -reaches greatest elongation east (25°) on 20 June, 2006. It is visible during twilight low in the west-south-west but its magnitude decreases by the order of three (3) over the course of the month and eventually becomes lost in the glare of the Sun in the evening.

Venus -rises less than two hours before the Sun and is only visible during morning twilight very low in the east-north-east.

Earth -what a snoozer of an object to observe because it is so monotonous and boring. Not much surface activity to readily observe.

Mars -in Cancer and is very low in the west-north-west during evening twilight. It sets less than three hours after the Sun in the west-north-west.

Jupiter -in Libra and is nearly 30° above the south -south-west horizon at the end of evening twilight. It sets in the west-south-west near 02:00 a.m..

Saturn -in Cancer and is visible very low in the west-north-west during evening twilight. It sets less than three hours after the Sun in the west-north-west.

Pluto -spends most of the year of 2006 in Serpens Cauda. In late September of 2006, it dips into Ophiuchus and eventually enters eastward into Sagittarius by early December of 2006. Opposition for Pluto is 16 June, 2006, and conjunction of Pluto is 18 December, 2006.

### Constellation Visibility from these Earth Latitudes

Name	Visible	Invisible
Andromeda	North of -37°	South of -69°
Antlia	South of +50°	North of +66°
Apus	South of +07°	North of +23°
Aquarius	Between +65° and -87°	Portions visible world-wide
Aquila	Between +78° and -71°	Portions visible world-wide
Ara	South of +22°	North of +45°
Aries	North of -59°	South of -80°
Auriga	North of -34°	South of -62°

**Constellation Visibility from these Earth Latitudes**

<b>Name</b>	<b>Visible</b>	<b>Invisible</b>
Boötes	North of -35°	South of -83°
Caelum	South of +41°	North of +63°
Camelopardalis	North of -05°	South of -37°
Cancer	North of -57	South of -83°
Canes Venatici	North of -37°	South of -62°
Canis Major	South of +57°	North of +79°
Canis Minor	North of -77°	Portions visible world -wide
Capricornus	South of +62°	North of +82°
Carina	South of +15°	North of +39°
Cassiopeia	North of -12°	South of -44°
Centaurus	South of +25°	North of +60°
Cepheus	North of -01°	South of -39°
Cetus	South of +65°	Portions visible world-wide
Chamaeleon	South of +07°	North of +15°
Circinus	South of +20°	North of +36°
Columba	South of +47°	North of +63°
Coma Berenices	North of -56°	South of -77°
Corona Australis	South of +44°	North of +53°
Corona Borealis	North of -50°	South of -64°
Corvus	South of +65°	North of +79°
Crater	South of +65°	North of +84°
Crux	South of +25°	North of +35°
Cygnus	North of -29°	South of -62°
Delphinus	North of -69°	South of -88°
Dorado	South of -69°	South of -88°
Draco	North of -04°	South of -42°
Equulus	North of -77°	South of -88°

**Constellation Visibility from these Earth Latitudes**

<b>Name</b>	<b>Visible</b>	<b>Invisible</b>
Eridanus	South of +32°	Portions visible world-wide
Fornax	South of +50°	North of +64°
Gemini	North of -55°	South of -80°
Grus	South of +33°	North of +53°
Hercules	North of -39°	South of -86°
Horologium	South of +23°	North of +50°
Hydra	Between +55° and -83°	Portions visible world-wide
Hydrus	South of +8°	North of +32°
Indus	South of +15°	North of +45°
Lacerta	North of -33°	South of -55°
Leo	Between +84° and -57°	Portions visible world-wide
Leo Minor	North of -48°	South of -67°
Lepus	South of +63°	North of +79°
Libra	South of +60°	Portions visible world-wide
Lupus	South of +35	North of +60°
Lynx	North of -28°	South of -57°
Lyra	North of -42°	South of -65°
Mensa	South of +05°	North of +20°
Microscopium	South of +45°	North of +62°
Monoceros	Between +79° and -78°	Portions visible world-wide
Musca	South of +15°	North of +26°
Norma	South of +30°	North of +48°
Octans	South of ±00°	North of +15°
Ophiuchus	Between +60° and -76°	Portions visible world-wide
Orion	Between +79° and -67°	Portions visible world-wide
Pavo	South of +15°	North of +33°
Pegasus	North of -54°	South of -88°

**Constellation Visibility from these Earth Latitudes**

<b>Name</b>	<b>Visible</b>	<b>Invisible</b>
Perseus	North of $-31^{\circ}$	South of $-59^{\circ}$
Phoenix	South of $+32^{\circ}$	North of $+50^{\circ}$
Pictor	South of $+26^{\circ}$	North of $+47^{\circ}$
Pisces	Between $+83^{\circ}$ and $-57^{\circ}$	Portions visible world-wide
Piscis Austrinus	South of $+53^{\circ}$	North of $+65^{\circ}$
Puppis	South of $+39^{\circ}$	North of $+79^{\circ}$
Pyxis	South of $+53^{\circ}$	North of $+73^{\circ}$
Reticulum	South of $+23^{\circ}$	North of $+37^{\circ}$
Sagitta	North of $-69^{\circ}$	South of $-74^{\circ}$
Sagittarius	South of $+45^{\circ}$	North of $+78^{\circ}$
Scorpius	South of $+44$	North of $+82^{\circ}$
Sculptor	South of $+50^{\circ}$	North of $+65^{\circ}$
Scutum	South of $+74^{\circ}$	North of $+86^{\circ}$
Serpens	Between $+74^{\circ}$ and $-64^{\circ}$	Portions visible world-wide
Sextans	Between $+79^{\circ}$ and $-83^{\circ}$	Portions visible world-wide
Taurus	North of $-59^{\circ}$	Portions visible world-wide
Telescopium	South of $+33^{\circ}$	North of $+45^{\circ}$
Triangulum	South of $-53^{\circ}$	South of $-65^{\circ}$
Triangulum Australe	South of $+20^{\circ}$	North of $+30^{\circ}$
Tucana	South of $+14^{\circ}$	North of $+33^{\circ}$
Ursa Major	North of $-17^{\circ}$	South of $-61^{\circ}$
Ursa Minor	North of $\pm 00^{\circ}$	South of $-25^{\circ}$
Vela	South of $+33^{\circ}$	North of $+53^{\circ}$
Virgo	Between $+68^{\circ}$ and $-76^{\circ}$	Portions visible world-wide
Volans	South of $+15^{\circ}$	North of $+26^{\circ}$
Vulpecula	North of $-61^{\circ}$	South of $-71^{\circ}$