

The Dummy Load

Official Bulletin of The Cambridge Amateur Radio Club (SWARC Inc)
serving the community since 1964

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Tom Franks VE3MAH

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Tom Franks VE3MAH

Call Custodians VE3SWA

Calvin Benoit VA3CBE

VE3SWR

Tom Franks VE3MAH

Web Master

Steve Nyul VE3USP

<http://www.cambridgeham.ca>

Club Net

An information net is held every
Wednesday on VE3SWR at 9 pm.

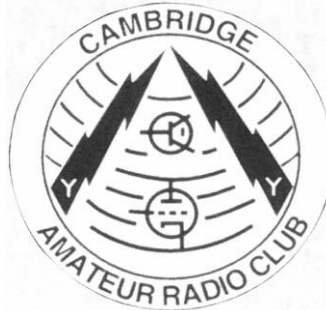
Local time.

All comers are welcome.

VE3SWR is an open repeater

146.790 MHz

-600 KHz offset



**VE3SWA
DXCC HONOR ROLL
(335/335)
WAZ, WAC, WAS.**

Next Meetings

Second Monday of the month
Preston Arena Boardroom at
8:00pm

October 19, 2015

November 9, 2015

December 14, 2015

January 11, 2016

Visitors are always welcome

Editor's column

Even though you editor has had an additional week to prepare the Dummy Load, this edition will once again be very short.

Thanks to Bert VE3BGG there is a good article included that he wrote as part of a presentation he made on climate change.

At the September meeting, Hugh VE3IHM, made a suggestion that the club consider purchasing an alternate type of shelter for field day namely a portable garage.

Discussion on this is to be held over to a future date.

In no particular order are some thoughts that may form a platform for discussion. Some quick research shows that a 10' x 15' portable garage: Weighs 133 lbs.

Contains 54 pieces of tubing, 62 small pieces and 75+ bolts and nuts.

Comes in a box approx 6'x5'x4' Takes 2 persons 3 to 4 hours to assemble and then must be tied down using spiral anchors.

Use of such a shelter could house up to 6 stations, three down each side. For more room, a shelter 12' wide should be considered.

Power runs from the generator would be centralised.

Grounding for the stations should now be a common point to prevent ground loops between stations.

Coax runs to the antennas may end up longer.

Headphones will be a must to eliminate noise from other operators.

Separate sleeping shelters are required.

At the end of field day, should the shelter be wet, a large area and several members to build and take it down after it is dry.

We would require a secure, dry space to store it with ready access as required.

We would require a method of transporting it to and from the FD site as required. (large car, truck or trailer).

Till next month --

Tom ve3mah@bell.net

Meeting minutes:

SWARC Meeting Monday September 14th 2015

Meeting opened at 8pm Moved by VE3USP 2nd VE3NVX carried

Present: VE3 ESW, MAH, USP, IHM, NXV, CEN, VA3CF, WIF, MP, ANT, YK, CBE

Minutes of Previous meeting:

Move they be accepted as distributed by VA3CF 2nd VE3ANT carried

Treasurers report :

2 cheques were paid over the summer:

\$ to Valens for rental of field this year and deposit for next year

\$ for hall rental for meetings

petty cash \$

Total accounts \$

Move to accept report VE3MAH 2nd VA3WIF carried

Old Business:

Signing of changes to the Constitution, done

Shawn's station down

Dave's antenna down, tower to come down

Field day produced 534 contacts but was very, very, wet

Cambridge Shriner's would still like to discuss us using their site for field day. Price is high but exposure could be good

WATSAT team had contacted VA3CBE and he had emailed them back. VE3USP reported he had been in contact with them and they were requesting help which has now been resolved

New business:

VE3IHM suggested that, as field day had been so wet and tents were being blown away, we may wish to look into purchasing a portable garage for future use in case of a similar occurrence

The pros and cons were discussed including storage, transportation, high winds. A number of members offered to help pay for the equipment. This will be discussed at future meetings

VE3MAH has equipment for sale and will be putting it on KWARC web site

VE3ESW is to contact the Shriner's for information on cost of renting, storage facilities etc for 2017

Donation to the repeater fund of \$9:50 was made by VA3ANT

Meeting closed at 845pm moved by VE3NXV 2nd VE3ESW carried

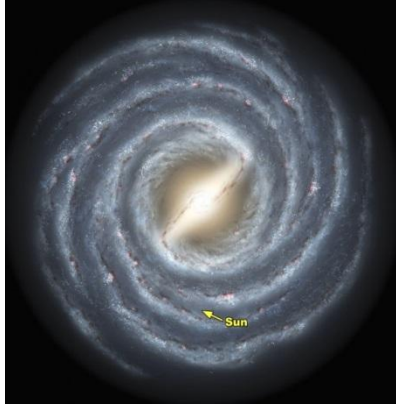
CLIMATE CHANGE

(A synopsis of Professor Henrik Svensmark's Theory of Climate Change as adapted from his book "The Chilling Stars".

See definitions on last pages>

(The belief that our planet's climate is warming due to increased CO2 in the atmosphere has no scientific base. Indeed the idea is similar to the "Tulip Bulb Hysteria of 1637"- when everybody accepted the fact that particular tulip bulbs were exceptional and willingly bought them at exorbitant prices b.g.g.)

Let's start with a little Astronomy 101 and take a look at the "Milky Way Galaxy" in which our Solar System (our sun plus all the planets, asteroids, etc.) exists.

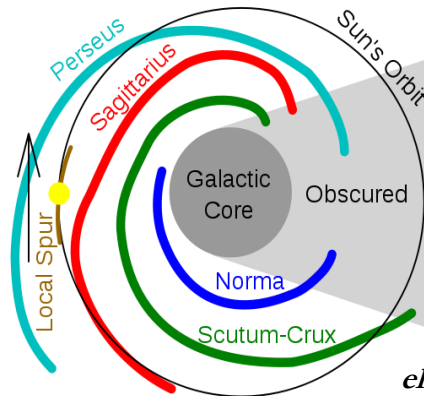


yellow present

There

our billions bands and

sake, each band has



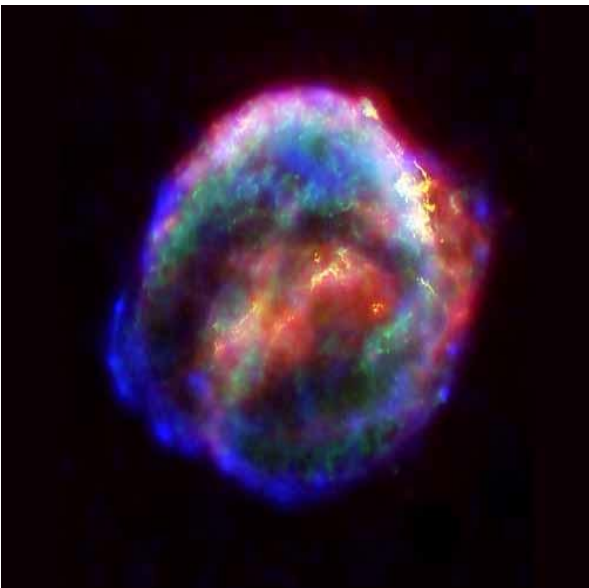
Our Milky Way Galaxy Diagrammatic sketch the dot represents our galaxy's position

are four discrete bands of stars radiating out from the centre of Galaxy. Each band consists of of suns and planets. The spiral are formed by gravity, rotation, electric charge. For convenience

been given a name. Astronomers are not certain which way the Arms circle -clockwise or counter clockwise- Our galaxy's diameter is 100,000 light years wide. (That comes out to a "6" followed by 21 zeros miles!) It is considered a small galaxy.)

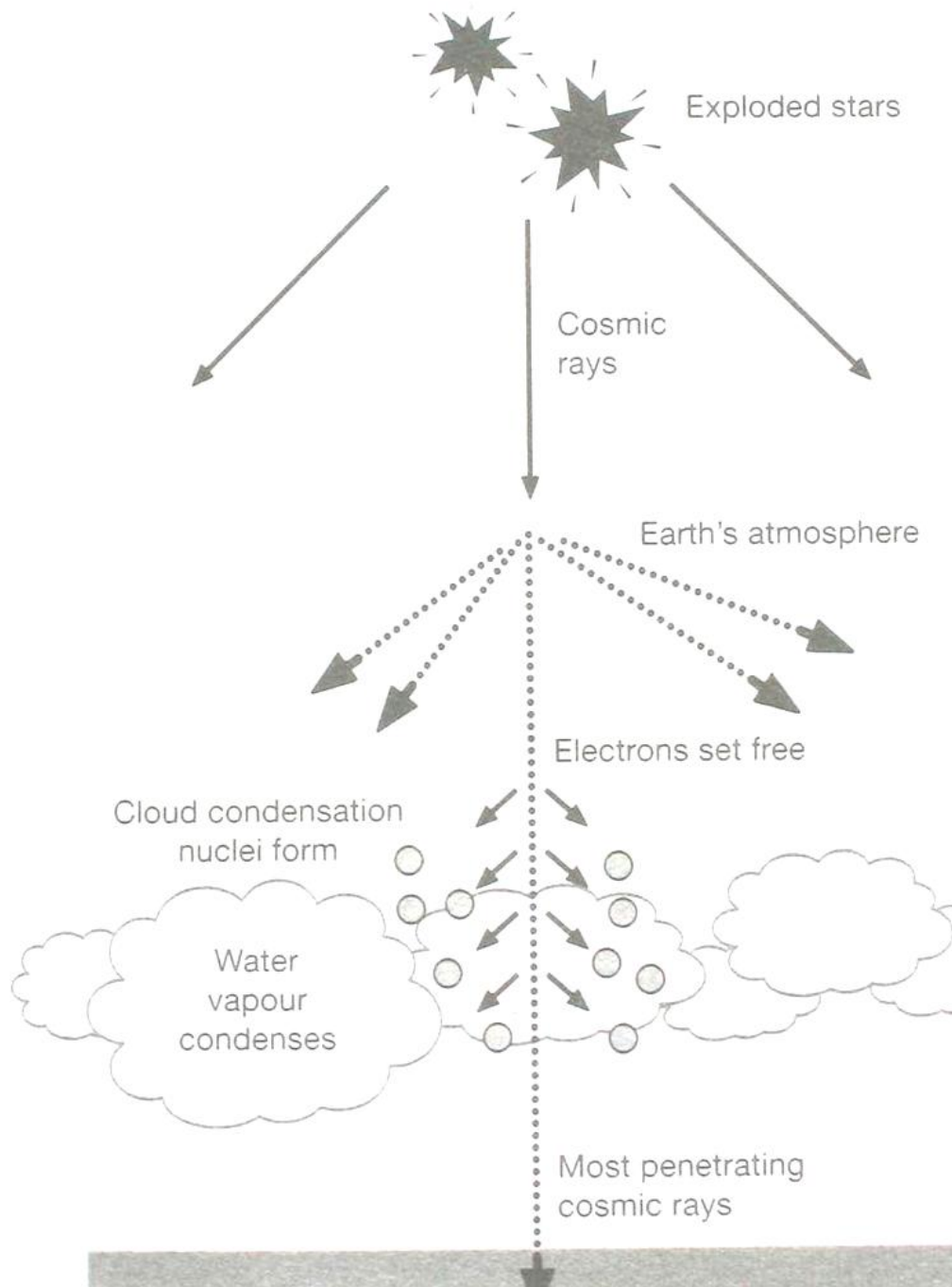
Astronomers have noted that new huge, new stars forming near the forward edge of each spiral arm frequently become "supernovae" which often explode, showering the cosmos with huge streams of cosmic particles- so-called "cosmic rays".

Since our Solar System does not circle the centre of our galaxy at the same speed as the Spiral Arms, it repeatedly traverses them and consequently is repeatedly bombarded by cosmic particles .



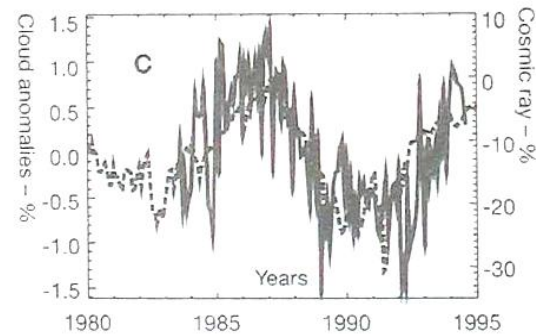
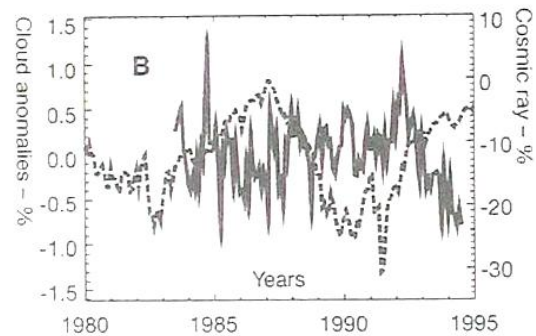
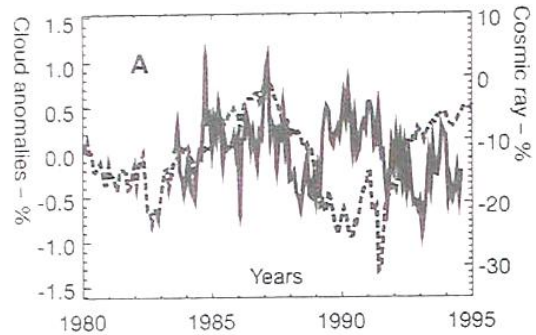
Here is a photo of a supernova, a star far more massive than our sun, self-destructing. The atomized matter blasted from its explosions expands freely into space and about 1/5th of it will eventually be converted into sub-atomic, charged particles travelling close to the speed of light. These stars' incessant production of cosmic particles continues for hundreds of thousands of years! The charged particles penetrate our atmosphere and some break into smaller particles setting electrons free. These freed electrons (muons) unite with molecules in Earth's atmosphere to form tiny nuclei around which water vapour collects to form tiny droplets that form climate controlling clouds!!

See below _____



Below are graphs showing the correlation of incoming Galactic Cosmic "Rays" to the cloud cover of the Earth. The solid line represents cloud cover - the broken line represents comic ray counts. (the counts were made using only American ingormation.) The solid line represents high, medium and low cloud cover, the broken lines represents the cosmic ray counts. Note the 100 % correlation in the climare

A SHINY EARTH IS COOL



controlling low clouds !

*Fortunately our sun is a huge magnet surrounded by a magnetic field that reaches out millions of miles into the cosmos. This magnetic field acts as a partial barrier to incoming cosmic particles, thereby protecting our atmosphere from severe weather effects. However, repetitive periods of **severe** bombardment by cloud- forming cosmic rays as our Solar system passes through the leading edges of the Spiral Arms causing long lasting periods of very cold climate, producing what we term "**Ice Ages**". Recently two researchers have confirmed that Earth has been stricken by such episodes - "Nir Shaviv" (now Professor of Physics in Israel), who studied iron meteors and demonstrated that the Earth has been struck by extremely heavy doses of cosmic particles at least 5 times. "Jan Veizer" (recently retired Professor of Geology, Ottawa University) also demonstrated the same severe cold episodes by studying fossil shells in tropical waters... They each concluded that Earth has suffered at least 5 Ice Ages which occurred 135,000 to 145,000 years apart.--*

WORD DEFINITIONS

CO2 a heavy, odorless gas formed by respiration, decomposition of organic substances (plants, burning coal, wood, oils)

Cosmos --anything that exists anywhere.

Charged particles--extremely tiny bits of substance bearing an electron

Cosmic particles--charged particles floating free in space

Electron--an elementary particle with a negative electrical charge

Free electron--an electron that is not attached to an atom or ion or molecule but is free to move under the influence of an electric field.

Fossil--The remains (or an impression) of a plant or animal that existed in a past geological age and that has been excavated from the soil.

Galaxy--A collection of star systems; any of billions of systems each having many stars, and dust.

Meteor--Any of the small, solid extraterrestrial bodies that hit the earth's atmosphere.

Nebula-- A cluster of stars

Solar system--_The sun with the celestial bodies that revolve around it in its gravitational field.

Subatomic--Of or relating to constituents of an atom

For further information read "The Chilling Stars" authored by Henrick Svensmark and Nigel Calder

B.G.Grapes M.D.

News from around:

Upcoming Events:

York Region ARC Saturday, October 31, 2015; 10801 McCowan Rd, Markham, ON; Vendors: 0630 - 0830. General public is admitted to the indoor gathering area commencing at 0730. No more braving the elements while waiting for the event to open! Have breakfast on site. Doors open to the vendor areas at 0900. \$7.00 per person and this includes a door prize ticket. We have "express lanes" for those with exact change. Children twelve and under admitted free. Vendor tables are \$33.00 each for a table eight feet long. Grand Prize tickets are \$5.00 each, three for \$10.00. VE3YRA 145.350 MHz (-) T: 103.5 Hz OR VE3YRC 147.225 MHz (+) T: 103.5 Hz <http://www.markhamfair.ca/canadas-largest-4-day-agricultural-fair-6/greetings/how-to-get-here/>

DX News:

Rather than list some of the events coming, here are some sources that I find quite complete.

For DXpedition news: <http://www.dx-world.net/>

For special events: <http://www.ng3k.com/Misc/adxo.html>

Islands on the air: <http://www.rsgbiota.org/>

For Sale / Swap / Free

The intention of this section of the bulletin is to provide a space where **members** can advertise items of a ham related nature to other members of the club. It is not intended as competition to the many on air and internet based swap shops.

Free: Kodak Digital Camera. Easyshare DX6340. All original accessories. Carry case also available.
Tom VE3MAH

For Sale: 440 ohm Ladder line. About 66 feet available – enough for 2 G5RV's. Price is ½ Maple Leafs advertised price. \$.30/foot. Tom VE3MAH

Free: (to club members) Cushcraft A3S TriBand beam. Tom VE3MAH

Free: (to club members) CDE AR-44 rotor unit only. Working when removed from VE3FC's tower.
Tom VE3MAH

Real Swap Sites:

KWARC Swap Shop -- one of the best around. <http://www.kwarc.org/swapshop/index.htm>

Maritime Swap Shop -- <http://www.ve1pjs.com/swapshop.html>

ONTARS Marketplace -- http://www.ontars.com/cgi-bin/classifieds/classifieds.cgi?session_key=&search_and_display_db_button=on&results_format=headlines&query=browse

Membership / Information update form: Membership in the Cambridge Amateur Radio Club is \$20 per calendar year. Please help the Treasurer by printing this page, filling in your information and giving it to him. If mailing, please use the address listed.

**Cambridge Amateur Radio Club
% Hugh Martin
310-400 Champlain Blvd.
Cambridge, Ontario
N1R 7J6**

***First Name:** _____ ***Last Name:** _____ *** Call Sign:** _____

***Address:**

***Email Address:** _____ **Telephone Number:** _____

Full membership \$20 Renewal New Member
Associate member \$5 Renewal New

*required – your information will not be shared with third parties.