



GROUNDWAVE

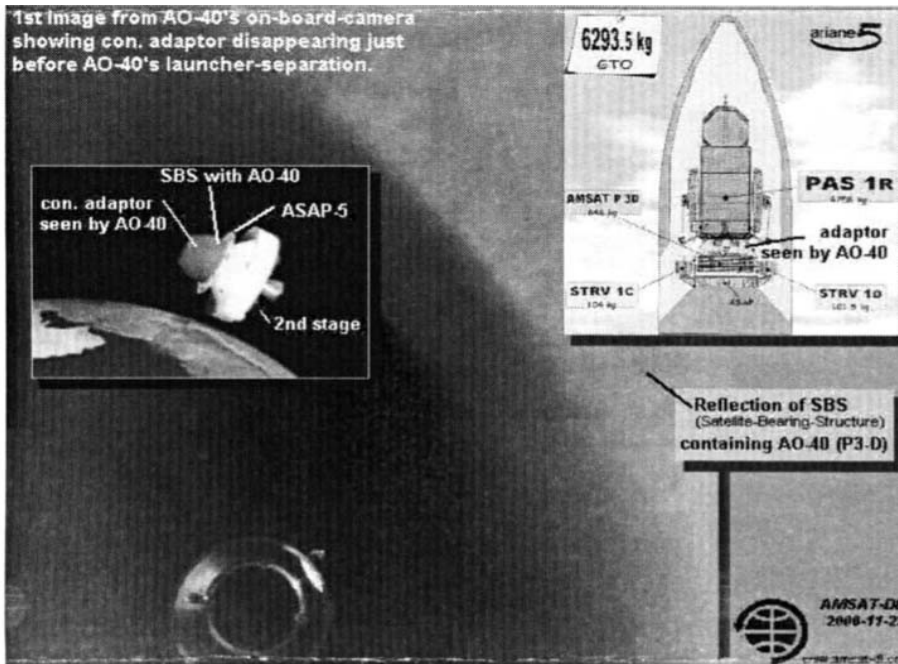
December 2000

P.O. Box 8873, Ottawa, Ontario, Canada, K1G 3J2

Check out our Web Page: www.oarc.net

Phase 3-D launches!

1st image from AO-40's on-board-camera showing con. adaptor disappearing just before AO-40's launcher-separation.



The FIRST photo from the satellite shows separation.
More pics on page 9.



AMSAT



RAC



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Club Information

The Ottawa Amateur Radio Club, Inc. (OARC) is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

Regular Meetings of the OARC Inc. are held on the first Wednesday of each month (except July and August) in the Keefer Room (2nd floor of the Old Teacher's College) of the Regional Municipality of Ottawa Carleton Head Quarters complex on Lisgar Street. Meetings commence at approximately 19:30 hours. Further details about each meeting is elsewhere in this publication.

Executive Meetings of the OARC Inc. are normally held on the second Wednesday of each month at 19:30 hours. Contact the President to confirm the date, time and place of the next meeting.

NET's of Interest

The Capital City FM Net meets every Monday at 20:00 hours on the club repeater VE2CRA to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

The SWAP Net is a service provided and conducted by Dan Reardon, VE3GUU. This feature appears on the Capital City FM Net. To list items and make inquiries, call Dan Reardon at 721-3339, ve3guu@igs.net. Also available on the web: <http://www.igs.net/~swap>

The POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club and is conducted every Sunday at 10:00 hours on 3.760 Mhz. All amateurs are welcome to check in.

The POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed Morgan, VE3GX, and meets every Sunday, except during July and August, at 11:00 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

The QCWA Chapter 70 NET every Thursday evening at 2000 hrs local time. Repeater VE3TEL 147.03-- You do not have to be a QCWA member to check into this Net.

The 2MSSB net is sponsored by the West Carleton ARCLook for it every Tuesday night (except the first Tuesday of the month) around 21:00 on 144.250. It is very informal and vertical polarization is encouraged.

OARC Inc. Memberships

- **Individual Memberships** available for \$20.00
- **Family Memberships** available for \$25.00
- **New Hams** just licensed may qualify for free membership, contact the membership Chair.
- **Junior Memberships** To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

Club Web Sites

http://www.oarc.net	Main Club site
http://ontario.aprs.net	APRS site
http://hydra.carleton.ca	High speed packet radio site

Club Repeaters

Voice	(VHF)	146.94/146.34	100 Hz output tone
	(UHF)	443.300/448.300	
Packet		147.07(sx)	For QSO and Packet BBS.
Packet 56 kbps		220.55/433.55	
East of Ottawa		145.69(sx)	
Ottawa Centre		145.07(sx)	
Hull		145.05(sx)	
West of Ottawa		145.03(sx)	
South of Ottawa		144.91(sx)	
Nepean		145.59(sx)	
West Carleton		144.97(sx)	

For further information, please contact the Repeater Chair.

November Meeting Minutes

Minutes of the OARC General Meeting-November 1, 2000

The meeting was called to order by the President at 7:30 pm. Secretary Greg was out of town on business. Director Dean Denter filled in on minute-taking.

There were no visitors at this meeting. Coming events were announced:

-The Saint Lawrence Valley Repeater Co-ordinating Committee will meet at 1 pm on Nov. 26 at Carleton University- Engineering building.

-The Phase-3 satellite will Launch on November 14.

-Doug Leach (VE3XK) is running for RAC Director in Ontario North. Doug has set up a very interesting website to keep you informed on his campaign. Try www.igs.net/~ve3xk.

Treasurer Elizabeth Johnson (VA3ELB) reported on our current finances.

Membership chair Tom Johnson (VA3WTJ) reports a current membership of 86. Tom supplied a updated membership list to those present. The executive will discuss how much information will be put on the website membership list. All received their Ground Waves on time.-Thanks Richard.

Vice-President Dave Parks introduced our Speaker Don Dashney (VE3RM) who entertained and informed us with his experiences in VHF/UHF DXing and Contesting. Don

finished his talk with a tape presentation of radio signals heard via various modes of propagation.

Clayton (VE3CBJ) thanked Don on behalf of the club.

Don Dashney, then VE3BYD, became a member of the Ottawa Radio Transmitting Association (forerunner of OARC) back in 1946. He mentioned being at the first meeting after the war at the YMCA, and the next meeting at the Glebe Collegiate. Members adjourned for a short coffee break, then reconvened for the fifty/fifty draw won by Mike Kelly (VE3FFK).

A reminder was given that the deadline for applications for the Joe Norton award was the seventh of November.

Rick (VE3IHI) called our attention to the Canadian Provinces award in the Sept/Oct issue of TCA, as well as reporting that the December issue of QST confirms the National Capital Field day station VA3RAC as being THE record breaking 35 A field day station.

Mike (VE3FFK) made an appeal on behalf of our net organizer Marc (VA3DRV) for controllers for the Capital City Net. (VE2CRA-146.34/94 Mondays at 8 pm EST) Marc's E-mail is va3drv@rac.ca.

Generic QSL cards were available at a very good price. (Free!)

The next meeting of the OARC will be in the same Honeywell Room of RMOC on Lisgar Street on Wednesday December 6.

Radio Amateurs of Canada

All News below is received from Radio Amateurs of Canada (RAC) bulletin service. Readers may subscribe to this service, visit the RAC website at www.rac.ca for more information. Guy Charron VA3FZA Bulletin Editor. Email: va3fza@rac.ca Packet: va3fza@ve3kyt

RAC Bulletin 00-088E **October 18, 2000**

Radio Amateurs of Canada met with Industry Canada officials at the fall meeting of the Canadian Amateur Radio Advisory Board (CARAB) in Ottawa on October second.

The following were highlights of the meeting.

- Industry Canada confirmed their intention to introduce new Basic and Advanced examinations as of January 1, 2001. The new examinations will be based on the revised question banks available from the Industry Canada web site as RIC 7 and RIC 8.

- RAC has published a revised Basic instruction manual that is now available, and the revised Advanced manual should be available soon.

- Industry Canada informed RAC that they expect to publish a Gazette Notice in the near future proposing a course of action with respect to the 12 words per minute Morse test, and seeking comments from the Canadian amateur radio Community.

- Other items discussed at the meeting included a RAC plea for stringent enforcement of the radio regulations, penalties for failure to report a change of address promptly, and the implications for Amateurs concerning Health Canada's Safety Code 6 guidelines for protection from RF radiation.

More details of the discussions will be published in the CARAB meeting minutes on the Industry Canada website at: <http://strategis.ic.gc.ca/SSG/sf01778e.html>

RAC Bulletin 00-091E **Canadian Amateur takes over as President of AMSAT-NA** **November 2, 2000**

Robin Haighton VE3FRH, has replaced Keith Baker KB1SF as the President of AMSAT North America.

Robin, who has been a licensed amateur since 1977, formerly held the call GD4INU. An electrical engineer by

profession, he joined AMSAT in 1991, organized the AMSAT-NA annual meeting in 1997, and more recently occupied the position of Executive Vice- President at AMSAT before replacing KB1SF as President.

Robin has been an active member of the Canadian amateur radio community for many years, he has been a life member of CARF and now RAC since 1980. More recently, he has become one of two RAC representatives to ARISS, the volunteer organization managing amateur radio participation on the International Space Station

RAC Bulletin 00-095E Phase 3D Launched **November 15, 2000**

The Phase 3D satellite was successfully launched from the European Spaceport in Kourou, French Guiana at 2000 UTC on November 15. Preliminary telemetry indicates that the launch went perfectly. Much work needs to be done before the satellite becomes available to the general amateur population. More information is available on the AMSAT website at www.amsat.org

RAC Bulletin 00-097E **New Basic Question Bank Issued** **November 23, 2000**

The second edition of RIC-7 was issued by Industry Canada earlier this month.

This circular contains the questions that will be used effective January 01, 2001, for making Basic Qualification examinations for the Amateur Radio Operator Certificate. This early release is intended to enable course providers sufficient time to prepare course material for future Amateur Radio Operator Courses. Until this time, examinations will be compiled using the existing question banks.

The question bank can be downloaded from the Industry Canada website at:
<http://strategis.ic.gc.ca/SSG/sf01900e.html>

The RAC Study Guide for Basic Exam, 6th Edition fully covers the new questions.

News from Near and Far

A Hamfest Bouquet

Reprinted from Listening In, October 2000. Listening In is the monthly publication of the **ODXA** (Ontario DX Association)

On September 2, we made our first visit to Carp, Ontario for the **hamfest** sponsored by the **Ottawa Amateur Radio Club**. I must say the group from the OARC were fantastic. Everyone couldn't be more helpful. As it was the first time the **ODXA** had been to Ottawa, we met many new vendors and friends from the area and had a great day overall. It was a great pleasure to meet Neil Carleton, ODXA member and teacher who runs a shortwave listening club at his public school. We also found a Phillips L4X26T AM/SW transistor radio just like the one we had at the Toronto Chapter meeting last May and that John Grimley profiled in Listening In. It will appear as a door prize at a future meeting. Many thanks to **OARC** and **Greg Danylchenko** for all your hard work and we will see you next year.

OARC member runs for RAC Ontario Director

As the former RAC First Vice President (and Acting President for a few weeks in 1999), in response to a number of requests, I have decided to let my name stand for election as Director Ontario North. Like other RAC Executive and RAC Field Organization positions, this is an uncompensated volunteer position. My only incentive to serve is for the betterment of Radio Amateurs of Canada, and Canadian amateur radio. I firmly believe that membership in RAC is much more than just a subscription to a great amateur radio magazine. It supports the vital work by dozens of volunteers on behalf of all Canadian radio amateurs. My qualifications, record of experience, accomplishments for RAC, and the energy I have brought to my previous work with RAC, speak for themselves. A letter sent to the 1200+ members in Ontario North would cost me well over \$1000, including one sheet, envelope and stamp. Unfortunately one page is not nearly enough to address the issues. Nor is it practical, in the short time available before January 1, 2001 balloting, to visit many of the 68 clubs across the huge Ontario North Region, which stretches from the Manitoba boundary and James Bay to Orillia, and east to the Quebec boundary (Postal Code prefixes P and K).

Instead, I have created a web site at:
<http://www.igs.net/~ve3xk>

Please ensure that the URL (internet address) is read out at your next club meeting and included in your next club newsletter.

My web site contains a number of pages of relevant information, including links to related RAC web site documents, (some of which I created during my term of office). It also shows how I intend to grow the site as a major resource for the Region amateur radio clubs. I intend to deserve your club's no-cost affiliation.

Please download and print the pages on the VE3XK web site for discussion at your club meetings. Also print out the RAC web site pages that are linked from my web site. These contain useful information on how RAC management works. Help me to dispel the many misconceptions about RAC that we hear as excuses not to join. Most of the excuses relate to RAC's lack of funds, which results from lack of adequate member support. That is what I intend to work on. RAC is our only national society. If we didn't have RAC, we'd have to create it. There is no reason to think that a new organization would be any more successful. My objective is to persuade all radio amateurs in Ontario North to join RAC and to help us make RAC into the best organization to help you to better enjoy the world's greatest hobby.

I am not looking for an endorsement. Consider this as a service to your fellow club members. An informed electorate makes better voting decisions. Thank you for doing your part to make this a good election with a high "voter turnout".

I hope you will vote for me, because I think I represent your best potential for results, but, in any case, please return your ballot with your important vote.

Doug Leach - VE3XK

Candidate for RAC Director - Ontario North

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Tel 613 729 4866
Fax 613 729 2376

mk's words

Nov 6 2000

Another busy time.

JOTA, the Jamboree on the Air came and went, and the kids seemed to have a good time. We operated outside, from Britannia Park. This gave the kids more room to run around in when they got restless. As a result, they didn't squirm as much when it was time to sit in front of the rig. The only disappointment was that they weren't able to make any satellite contacts. They were looking forward to that, but Murphy had his foot in the door. Maybe next time.

We got the rest of the structure for Phil's rhombic into the sky, although we didn't get the wire strung. With ropes and pulleys attached to all the masts, the Duke and Duchess of Kenmore should be able to take care of the rest before the snow falls.

The "Millennium Halloween Bunny Hunt and BBQ" went off ok. For once we didn't win, with that honour going to the dynamic duo of VE3MOG and VE3DRO. Even the bunny was in a Halloween costume. (.. ever see a rabbit in a pig suit?) Best costume for a hunter was VE3GBD and VE3WEH, in Einstein and Clown suits, respectively.

Then it was another site visit to VE3TWO / VE3RVI to bring up the autopatch on one and work on the identifier of the other. Both projects went well, and should be finished for a while.

November 5, I decided to join the fun on the ARRL CW Sweepstakes. I was looking to make a hundred contacts on 40m QRP. This had to be sandwiched between laundry, dishes, and other chores. The rig was the Index Labs QRP Plus, rather than the "big rig" turned down to 5W. Although it wasn't my first brush with QRP contesting, it was the first time I used that rig under contest conditions. The 20dB attenuator was on almost full time, but in the evening the multiple big signals still shredded the band, making 30 wpm CW sound like fifty. I didn't call CQ much, but then I usually don't in contests. Most stations came back on the first call, just like QRO operation. If they

didn't resume calling before I got my call sign sent, there was a pretty good chance they heard me. There was more of "VE3? agn", and more requests for repeats than with a full sized signal, but it was also more of a challenge. Reaching my goal of 100 contacts before bedtime was in doubt right up to the last ten minutes, especially with the sixes telling me they could hear me, but not well enough to make the contact go. Finally, a bunch of fours in the sunny south came through for the last few.

Back when we were at Phil's place, he asked if the contesters were all the young sounding, gung-ho types he seems to hear all over the bands when ever there is a phone contest going on. The Sweepstakes provides part of an answer to that question, at least for North America. Part of the exchange is the year when first licensed. If you assume that everyone in the contest was about twenty, plus or minus five, when they got their ticket, you get the answer. If they were 60, plus or minus five, then it messes things up a bit, but given the demographics of amateur radio, it would take a lot of recent old hams to swing the balance. I suspect the answer is that contesting makes you sound young, but feel old.

Coming up, is (are) the Phone Sweepstakes, where I get to find out if there is a difference in average age between the CW and the Phone kids.

It's a good thing that the December meeting is about Contesting. Maybe I'll find out how I'm supposed to be doing this stuff.

With the coming of November, I decided to get a bus pass, so that's just about the end of bike mobile for another year. I didn't get on the air as much this summer, but there's always next year. Maybe it won't rain quite so much.. - maybe I'll get the rig a raincoat. - maybe I will get some of the toys off the drawing board and turned into hardware this winter.. maybe.

73 & Be nice to Santa (tis almost that season again)

mk, VE3FFK

Meeting Schedule

December 2000	HF contesting - Dave Goodwin VE2ZP
January 2001	APRS - Marc VE3DRV
February 2001	Canadian Ski Marathon - Ed Strange VE2MPP
March 2001	Maximizing use of the modern transceiver - Sheldon Harvey VE2SHW
April 2001	Home brew night
May 2001	Modern cellphone & wireless web - (tentative)
June 2001	TBA

Next Meeting

OARC

The next meeting of the **OARC** will be held **Wednesday, December 6th at 19:30** at **RMOC** headquarters. 111 Lisgar (at Elgin). See above for room information.

WCARC

The next meeting of the **WCARC** will be held **Tuesday, December 5th at 19:30** at the IGS office of Internet World Domination. (Branch Office)

Ottawa Amateur Radio Club Inc.

Box 8873
Ottawa, ON
K1G 3J2

Membership Renewal / Application

Callsign(s) _____

First Name _____ Last Name _____

Address _____

City _____ | Prov _____ | Postal Code _____

Home Phone _____ - _____ | Work Phone _____ - _____ | ext _____

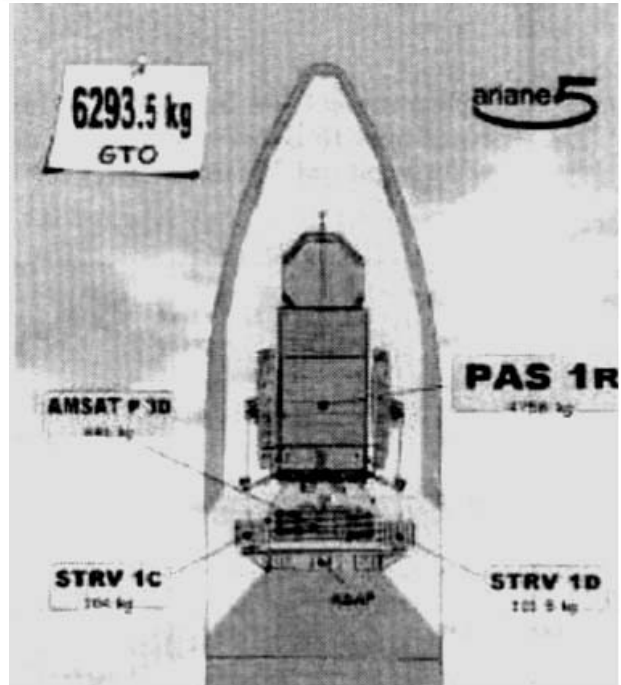
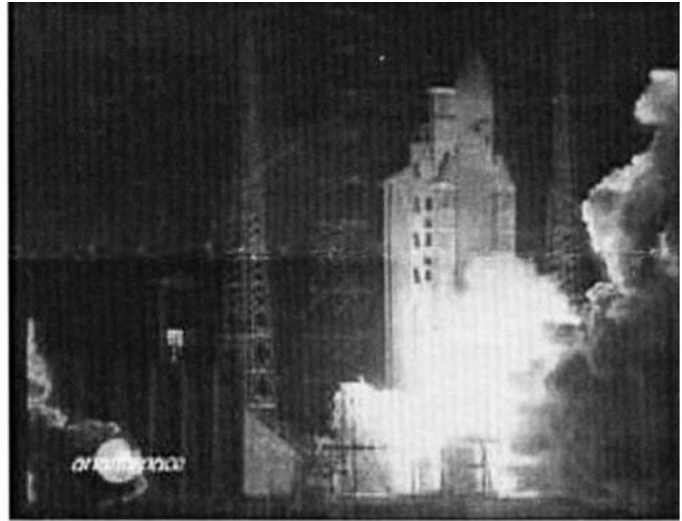
Email Address _____ @ _____

Current Qualification: Basic Advanced Grandfathered
5 wpm 12 wpm Year Licensed 19__

- Renewal (\$20 single, \$25 family, \$10 junior)
- Newly Licensed ham - \$FREE if licensed in current membership year
- New Single Membership - \$20 (\$15 after February)
- New Family Membership - \$25
- New Junior Membership - \$10

A0-40 is Born!

Thanks to the AMSAT website, Arianespace, BR Television and IK1SLD for these images.





BML Communications

(a division of Bytown Marine Limited)

5 Corvus Court, Nepean, ON, K2E 7Z4

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TX Frequency Coverage 160 - 10 Meters, 50 MHz,
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Channel (5167.5 kHz).

RX Frequency Coverage 100 kHz - 56 MHz; 76 D 154
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Power Output 5 Watts SSB/CW/FM with 13.8V
External DC; 1.5W AM Carrier. 2.5 Watts SSB/CW/FM
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Up to 5 W SSB/CW/FM power (max.) programmable via
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Case Size: 5.31" x 1.5" x 6.5" (WHD)

Weight: 2.6 lb (w/Alkalines & Antenna, w/o Mic.).

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