



THE COMMUNICATOR

Newsletter of the TAMAMI AMATEUR RADIO CLUB

Incorporated 30 November 1984 – Venice, Florida
Mailing Address: 1419 E. Manasota Beach Rd., Englewood, FL 34223-6341
W4AC Repeater – 146.805 MHz(-) w/100 Hz PL
Web Site – <http://tamiamiarc.org>



-- FEBRUARY 2009 --

-- PRESIDENT'S MESSAGE --

I went down to the Southwest Florida Hamfest & Computer Show sponsored by the Fort Myers ARC, and two things pleased me. For one thing, it looked like there was a better attendance that last year, which is good news in this day and age. Second, there was an excellent showing by TARC members down there—at least eight to ten that I can account for.

As you will read in the minutes of our January meeting, we are asking for assistance from our members in order that we can offer interesting programs at our meetings. When this subject came up at the meeting, there was some meaningful discussion with, what I consider to be, positive results. We are asking our members to submit topics and/or questions which they would like presented and discussed at our future meetings. In this way, we will have a better understanding of your interests in ham radio. We will also see where you feel the need for better knowledge of the varied aspects of current ham radio activities. TARC members are being asked to submit their requests to me via e-mail at w4mo@verizon.net.

To date, I have received input from only five TARC members, but with a variety of topics which are listed elsewhere in this newsletter. Let me know of your interests in these topics and any others you would like discussed. We have the expertise in TARC to handle virtually any topic, so let me know.

If you have been lax in club participation, please try to give some priority to our club. A couple hours a month isn't too much to ask is it? I'm looking forward to seeing more of you during 2009!

73 to all de Stew-W4MO

To compel a man to furnish contributions of money for the propagation of opinions which he disbelieves and abhors, is sinful and tyrannical. Thomas Jefferson (1743-1826), Virginia Statutes of Religious Freedom, 1779

-- FEBRUARY MEETING --

The doors open at 6:30 PM with a "get acquainted" period until the business meeting kicks off at 7:00 PM on **12 February 2009** in the Community Room of The Gulf Coast Community Foundation of Venice, 601 South Tamiami Trail (Business US 41), across from the Venice Regional Health Center.

-- JANUARY MEETING DISCUSSION TIME --



In-depth discussions on varied topics claimed everyone's attention at our January meeting.

-- WORLDRADIO ONLINE; IT'S FREE! --

The first issue--February 2009--of the free WorldRadio is available on line. As you may or may not know, CQ Communications, Inc. acquired WorldRadio in late 2008, with the goal of making it a free publication available on the Internet. The Online version is a 40-page full color publication, following the basic format of the former paper publication, with the same staff and columnists. It looks like a winner, as well as a great gift to the Amateur Radio community. See <http://www.cq-amateur-radio.com/WorldRadio.html>. The cover photos and lead article feature the SS *American Liberty*, a Victory class freighter built in 1945. It's now a museum ship on display in Tampa with Amateur Radio Station W4AVM on board and in operation.

TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
08 January 2009

President Stew Haag-W4MO called the meeting to order at 7:10 PM and led the pledge of allegiance. Dave Witt-WD9W from Fond du Lac, Wisconsin and Jon Krijnsman-N1BDF from Shelton, Conn. were welcomed as visitors. Introductions were then made all around.

MINUTES – Secretary Jack Sproat-W4JS asked for a motion to accept the minutes of the 11 December 2008 meeting as published in the January 2009 issue of *The Communicator*. Bob Avrutik-N1RA so moved, seconded by Croft Taylor-VE3CT, and passed.

CORRESPONDENCE – Jack offered a reminder of the 13-15 February Orlando HamCation, and asked if there was any interest in car pooling. Several members commented that they planned to go and could take others, if interested.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE reported that the starting balance was \$2169.75. Receipts were \$15.00 from the December 50/50, and \$90.00 from membership renewals, totaling \$105.00. Expenses were \$14.43 for DayStar Internet service at the repeater, and \$600.00 for the annual tower lease at the repeater site, totaling \$614.43. The 08 January 2009 ending balance is \$1660.32. Peter Peas-N4RD moved for approval, seconded by Matt Klapp-W2EQV, and passed

COMMITTEE REPORTS

SUNSHINE – Martin Horowitz-N4RD is scheduled to return home today after undergoing chemotherapy in New York.

VE TESTING – Jack-W4JS advised that at least one candidate is expected at this Saturday's VE session.

REPEATER/TECHNICAL – Stew-W4MO reported that installation of the 2-meter receiving antenna on the tower at W4JS is scheduled for tomorrow. Additional work remains to be done at both the transmitter and receiving sites.

CLUB PROPERTY – Stew-W4MO reported no change in the Club property inventory.

PUBLICITY/MEMBERSHIP – Don-KI4VGE reported that we now have 90 members, including eight Life Members and 10 First-Year Free members.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG was not present.

LIAISON TO EARS – Konrad Owens-WA3RRS reported that the EARS would be sponsoring a hanfest later this year.

LIAISON TO QCWA – Jack-W4JS reported there were 33 members and friends at 07 January lunch at Denny's, Bee Ridge Road, Sarasota. "LEN" Carlson-K4IWL put on an informative program, "The History of Ham Radio and the Pioneers Who Made It Possible." Bob Avrutik-N1RA is scheduled to present the February program on medical electronics.

OLD BUSINESS – Jon Hamlet-W4ZW reported on recent activities of the Pine View School ARC. Each licensed member now has a handtalkie, and he has provided several HF radios which can be borrowed for use by the members. Jon would like Eric Owen-KD4MZM to talk about, and possibly, demonstrate satellite communications. The next club meeting will be on 13 January. Jon asked for volunteers who could be available to provide telephone answers to questions from the members.

NEW BUSINESS – Stew-W4MO raised the question of the club having a Program Manager who could arrange and schedule future programs. No volunteers came forward, however, there was meaningful discussion. It was then requested that the members make up a list of questions on topics which they would like discussed, explained, clarified, etc. These questions should be sent via e-mail to Stew.

COMMENTS FROM THE FLOOR – Some discussion ensued regarding satellite tracking programs now in use. Andy Durette-KB1HIP stated that his proposed training for the Extra Class license would get under way in the near future. Bob Avrutik-N1RA reminded all of the upcoming Fort Myers Hamfest on 17 January. Konrad Owens-WA3RRS stated that the Venice Sharks Tooth Festival would be 17-19 April, and Jack-W4JS advised that our K4S operating permit was in hand.

ADJOURNMENT – A motion to adjourn at 7:47 PM was made by Jon Hamlet-W4ZW, seconded by Konrad Owens-WA3RRS, and passed. There were 22 members and two guests present.

PROGRAM – Courtesy of Dil Kay-W8DIL, a very interesting video was shown on Powel Crosley Jr. and his development of AM Station WLW which ran 500,000 watts during the mid-1930s.

Jack Sproat-W4JS
Secretary

The mystery of government is not how Washington works but how to make it stop. P. J. O'Rourke, *Parliament of Whores*, 1991

CURRENT/PENDING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (GMT)							
			80	40	30	20	17	15	12	10
Uganda – 5X4X	Now to 31 May	77	--	21-06	21-00	16-22	16-20	17-19	17-19	NO
Solomon Is – H44MS	Now to 28 April	275	07-13	06-14	08-15	19-00	20-23	21-22	21-22	NO
Chagos – VQ9JC	Now to 18 April	54	23-02	21-03	20-23	15-20	16-19	16-19	NO	NO
Dominica – J79XBI	Now to 01 April	116	21-13	12-01	13-23	16-21	16-21	NO	NO	NO
Senegal – 6W2SC (mostly digital)	Now to 09 Mar	87	22-09	19-10	13-00	14-21	16-20	16-20	NO	NO
Guinea Bissau – J5UAP (mostly digital)	Now to 09 Mar	90	22-09	20-09	17-00	14-22	16-20	16-20	NO	NO
Wallis & Futuna Is – FW5RE	Now to 17 Feb	260	06-13	04-15	08-14	18-00	18-23	19-21	20-21	20-21
Minami Torishima – JD1BMM, JD1BND	Now to 09 Feb	308	07-13	06-14	14-16	21-22	21-22	NO	NO	NO
The Gambia – C56KR ++	Now to 04 Feb	88	--	20-09	--	15-21	16-19	16-19	NO	NO
Reunion Is – FR/OE3GEA **	01 – 13 February	91	23-03	22-04	21-00	17-22	15-20	16-19	16-19	NO
Tanzania – 5H1DF	03 – 12 February	83	23-04	21-05	20-00	15-22	15-20	16-19	16-19	NO
Fiji – 3D2OU, 3D2NB **	11 – 16 February	258	06-13	05-14	06-15	18-00	19-22	20-22	20-22	NO
Cape Verde Is – D4C **	11 – 22 February	89	22-09	18-13	13-01	13-23	16-21	16-20	16-20	NO
Desecheo Is – K5D	12 – 26 February	119	00-24	00-24	12-01	13-23	15-21	17-20	17-20	NO
Tonga – A35HA	14 – 21 February	253	--	04-14	05-14	17-00	18-23	19-22	20-22	20-21
Tuvalu – T2??? ** (by N7OU & W7YAQ)	17 Feb – 02 Mar	267	06-13	04-15	06-15	18-01	19-23	19-22	19-20	19-20
Seychelles – S79JF	22 Feb – 06 Mar	68	--	22-04	21-00	17-22	15-19	17-19	17-19	NO
Aves Is – YW0A	26 Feb – 05 Mar	119	21-13	00-24	00-24	12-00	14-22	16-21	17-20	17-20
Mayotte – FH/G3SWH **	26 Feb – 05 Mar	85	23-03	22-04	21-01	18-21	16-18	16-18	16-18	NO

Updated 28 January 2009, based on 28 January 2009 *QRZ DX*, 26 January 2009 *The Weekly DX*, and <http://www.ng3k.com/>

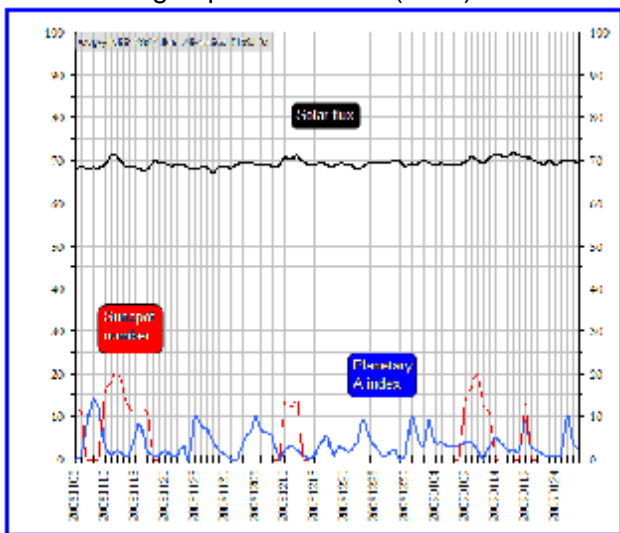
Notes: Time in bold = Band(s) with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly Phone; ** = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts calculated using *W6ELProp V.1.03* propagation software, available at <http://www.qsl.net/w6elprop/>. Solar Flux and K-index varied in accordance with USAF 45-Day A/P Forecast.

-- JANUARY SOLAR ACTIVITY --

During January, the Solar Flux ranged from 69 to 72, with a mean value of 69.9 (vs. 74.1 for January 2008 and 83.2 for January 2007). The A-index was ≤ 10 on 30 days.

Solar activity was very low. Sun spot Region 1010 emerged on 09 and decayed 11 January. SS Region 1011 formed on 19 and decayed 20 January. See figure below.

January's geomagnetic field was at quiet levels during the month, other than disturbed conditions on 19 and 26 January due to recurrent coronal hole high speed streams (HSS).



(Courtesy of: Jan Alvestad, <http://www.solen.info/solar/>)

Anger is the wind that blows out the lamp of the mind. Robert Green Ingersoll

-- FEBRUARY FORECAST --

February solar activity is expected to be very low. No proton events are expected at geosynchronous orbit. The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal levels. Solar flux should range close to 70 during the month.

Geomagnetic field activity is expected to be at quiet levels 01-14 February. Activity is expected to increase to unsettled levels on 15 February due to recurrent HSS. Activity is expected to decrease to quiet levels 16-21, increasing to unsettled levels, with isolated active levels on 22 February. Activity is expected to decrease to mostly quiet levels on 23 February and remain so for the remainder of the month.

(From NOAA *Weekly Highlights and Forecasts*, 27 January 2009, NOAA *27-day Space Weather Outlook Table*, 27 January 2009, and *45 Day AP Forecast*, USAF, 27 January 2009)

-- VARIOUS DX NOTES OF INTEREST --

Chatham Island will be activated by a team of nine New Zealanders 06-11 March. All modes, 160 – 10 meters. QSL via ZL2AL.

Petrus-ZS8T finally showed briefly high up on 20 meters from Marion Island on 29 January using a SteppIR vertical. Check out more about Petrus at <http://tinyurl.com/a2k3f6>.

H40MS should show up on SSB from Temotu 2-16 March. Plan ahead.

(From *QRZ DX 2009-04* & *The Weekly DX Vol 9 No 4*)

CONTESTS & ACTIVITIES

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
Ten-Ten Winter Phone QSO Party	0001Z 07 Feb 2359Z 08 Feb	10 Meters Only Phone Only	Anyone, Anywhere	Call sign, name, QTH, 10-10 #
Worldwide Peace Messenger Cities	1200Z 07 Feb 1200Z 08 Feb	160 – 10 Meters Phone & CW	Stations in Peace Messenger Cities	R/S/(T) and Serial Number
Mexican International RTTY Contest	1800Z 07 Feb 1759Z 08 Feb	80 – 10 Meters RTTY Only	Anyone, Anywhere	R/S/T and Serial Number
North American Sprint	0000Z 08 Feb 0400Z 08 Feb	80 – 20 Meters CW Only	Anyone, Anywhere	Both calls, serial#, name, QTH
CQWW RTTY WPX Contest	0000Z 14 Feb 2400Z 15 Feb	80 – 10 Meters RTTY Only	Anyone, Anywhere	R/S/T and Serial Number
PACC (Dutch) Contest	1200Z 14 Feb 1200Z 14 Feb	160 – 10 Meters Phone and CW	Stations in the Netherlands	R/S/(T) and Serial Number
North American Sprint	0000Z 15 Feb 0400Z 15 Feb	80 – 20 Meters Phone Only	Anyone, Anywhere	Both calls, serial#, name, QTH
ARRL DX Contest	0000Z 21 Feb 2400Z 22 Feb	160 – 10 Meters CW Only	DXCC Entities	R/S/T and State/ Province
REF (French) Contest	0600Z 21 Feb 1800Z 22 Feb	80 – 10 Meters Phone Only	Stations in France & French Territories	R/S and Serial Number
Russian WW PSK Contest	2100Z 27 Feb 2100Z 28 Feb	160 – 10 Meters PSK31 Only	Anyone, Anywhere	R/S/T and Serial Number
UBA (Belgian) Contest	1300Z 28 Feb 1300Z 01 Mar	80 – 10 Meters CW Only	Anyone, Anywhere	R/S and Serial Number
North American QSO Party	1800Z 28 Feb 1300Z 01 Mar	80 – 10 Meters RTTY Only	Anyone, Anywhere	Name and State/ Province

From ARRL "Contest Corral" on the ARRL Web Site

-- ENFORCEMENT ROLE REACTIVATED --

The FCC's Laura Smith has been named by the FCC to fill the vacancy created when Riley Hollingsworth-K4ZDH retired in 2008 as Special Counsel for the Spectrum Enforcement Division of the FCC's Enforcement Bureau.

A 1990 graduate of Pepperdine University School of Law, Smith began her legal career with the FCC. In 1998, she left the Commission for the private sector, rising to President and CEO of the Industrial Telecommunications Association, now the Enterprise Wireless Alliance. She was with the Maryland law firm of Shulman Rogers prior to her return to the FCC.

(From *ARRL Bulletin* 8, 26 January 2009)

-- IT'S DUES TIME AGAIN --

Yep, with the New Year, it's time to show your loyal support of the TARC by paying your 2009 dues. Still US\$15 for individual, but now US\$20 for family membership. Please complete a Membership Application, to update your personal data and interests, and mail with your check payable to "TARC" to:

Don Jansen-KI4VGE
4254 Pandora Road
Venice, FL 34293

-- REGIONAL HAMFESTS --

07 Feb 16th Annual Highlands County ARC Hamfest, American Legion Post 25, 1490 US 27 North, Lake Placid. TI: 147.045 (PL 100)

13-15 Feb Hamcation and Southeastern Division Convention, Central Florida Fairgrounds, 4603 W. Colonial Dr., Orlando. TI: 146.160/146.760

(From ARRL Hamfest Database)

-- FIRST ALPHA AP8410 SHIPPED --

Alpha Radio Products LLC announced 27 January that the first production AP8410 amplifier was shipped from its Boulder, Colorado facility. The AP8410 is the latest in the line of 1500-watt tetrode amplifiers from Alpha Power.

Alpha president Molly Hardman-WOMOM states several features have been incorporated into this amplifier including improved screen-grid regulation and provision of a USB interface for remote monitoring and control. The amp uses the Alpha Power band VTX-X118 tubes; a ceramic, external-anode, indirectly heated tetrode that can handle the expected grid current.

(From Carl Smith, N4AA@dxpub.com)

-- THERE'S ANTENNAS..... --



After using wires and verticals for several years, Bill Salmon-W2IL recently put up this HF hybrid quad-mini beam at about 25'.

-- AND THEN THERE ARE ANTENNAS!! --



The *New DX Summit* Internet spotting site is operated by the Finnish Radio Arcala-OH8X group. Their station is located at the Arctic Circle, within the Aurora Belt. Recently the Arcala-OH8X group erected this monster antenna system with three elements on 160 meters and four elements on 80 meters. The guyed rotating tower is 100 m (330') tall, with the 160-meter beam at 80 m (270') and the 80-meter beam at 90 m (300'). The shortened/loaded 160-meter elements are each 59 m (190') long on a 71 m

(215') boom, and the longest of the full-sized 80-meter elements is 46 m (140') long, all mounted on a 60 m (200') boom. Total weight of the installation is 39,600 kg (80,000 lb), and it's covered with 600 l (120 gal) of paint. With the guying, the installation occupies 2.89 ha (7.1 ac). This is Tower 7 at the Arcala site.

(From <http://www.radioarcala.com>)

-- LICENSE COURSE AND ASSISTANCE --

On 26 January, Andy Durette-KB1HIP kicked off his Extra Class training session, with some 10 attendees. The sessions run from 6:30 – 8:00 PM the first Monday of each week in the Community Room of the Gulf Coast Community Foundation of Venice—where our TARC meetings are held. Plans are to cover one chapter of the ARRL manual each week, so it's not too late to get started. Contact Andy via AF_Durette@hotmail.com.

If you're studying on your own for an upgrade, and feel the need for "comfort and assistance," contact any of the following TARC members:

General Class

Jack Gaddas-KY1Z	igaddas@verizon.net
Mike Hickey-NY4P	ai4sr@hotmail.com
Konrad Owens-WA3RRS	kdowens39@hotmail.com
Jack Sproat-W4JS	w4js@juno.com

Extra Class

Jack Gaddas-KY1Z	igaddas@verizon.net
Stew Haag-W4MO	w4mo@verizon.net
Bob Avrutik-N1RA	n1ra@juno.com

-- POTENTIAL TARC PROGRAM TOPICS --

Five TARC members have suggests potential topics for presentation at future TARC meetings. Consider the following and advise Stew-W4MO of your favorites.

- 1) Using computer logging programs
- 2) Yagi design, principles and operation
- 3) Measuring feed-line loss/SWR techniques
- 4) The "Art of DXing"
- 5) The "Art of QSLing"
- 6) Installation and use of EchoLink
- 7) Installation and use of digital modes
- 8) Slow Scan TV
- 9) APRS – the ins and outs
- 10) Internet sites/reflectors useful to hams
- 11) TELNET DX packet systems
- 12) Software Driven Radio – how does it work
- 13) Remote operation of the HF radios
- 14) Stealth Antennas
- 15) Mobil Radio installation and operation
- 16) Using stubs/filters for SO2R operation
- 17) TNC/radio control devices

-- "EVERYTHING OLD IS NEW AGAIN!" --



Bill Salmon-W2IL recently set up his mint condition Swan 500C, which he bought new back in 1968, and put it on the air again. Speaking into the Turner 444 mike and assisted by a Time-wave DSP-9 on the receiving end, Bill made over 30 QSOs, including some DX. The Swan WM-2000 watt meter indicated he was getting over 200 watts to the antenna.

Bill's question is, "I wonder how many of the new rigs, like my ICOM PRO III will still be going strong after 41 years?" Good question!

-- MAGNETIC FIELD BREACH --

NASA's five THEMIS (Time History of Events and Macroscale Interactions) spacecraft have discovered a breach in Earth's magnetic field ten times larger than anything previously thought to exist. Solar wind can flow in through the opening to "load up" the magnetosphere for powerful geomagnetic storms. Researchers are even more amazed at the strange and unexpected way it forms, overturning long-held ideas of space physics.

The magnetosphere is a bubble of magnetism that surrounds Earth and protects us from solar wind. On 03 June 2007 the five THEMIS probes flew through the breach just as it was opening. Sensors recorded a torrent of solar wind particles streaming into the magnetosphere, signaling an event of unexpected size and importance. (ED note: The *k*-index was 3.) The opening was four times wider than Earth itself, with 10^{27} particles per second flowing into the magnetosphere. The entire day-side of the magnetosphere was open to the solar wind.

Space physicists have long believed that holes in the Earth's magnetosphere open only in response to solar magnetic fields that point south. This June 2007 breach, however, opened in response to a solar magnetic field pointed north.

The solar wind presses against Earth's magnetosphere almost directly above the equator where Earth's magnetic field points north. If a bundle of solar magnetism comes along and it also points north, the two fields should reinforce one another, strengthening Earth's magnetic defenses and deflecting the solar wind. However, during the June 2007 event, when a northern oriented magnetic field came along it passed through the Earth's magnetosphere.

Northern oriented events don't actually trigger geomagnetic storms, however they do set the stage by loading the magnetosphere with plasma. A loaded magnetosphere is primed for auroras, power outages, radio blackouts, etc. that can occur when a coronal mass ejection (CME) hits.

CMEs in even-numbered solar cycles, like the pending Cycle 24, tend to hit Earth with a leading edge that is magnetized north. This could result in stronger geomagnetic storms than have been experienced in many years.

(From http://science.nasa.gov/headlines/y2008/16dec_giantbreach.htm.)

(During the current era of no significant sun spots, distant HF communications are dependent on quiet conditions in the Earth's geomagnetic field. Therefore, it is important to be alert with regard to the activity levels of the geomagnetic field.)

Reference to <http://www.solarcycle24.com> shows the orientation and velocity of the solar wind via two "speedometer-type" meters. This is an excellent means to estimate how successful propagation could be on any given day.)

-- IT'S DUES TIME AGAIN --

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Don Jansen-KI4VGE
4254 Pandora Road
Venice, FL 34293

If you are a "First Year Free" member who gained that status prior to September 2008, you must pay membership dues for 2009 if you want to remain a member of the TARC. If you are uncertain of the details, Don Jansen-KI4VGE (DLJansen@comcast.net) can clarify when you became a "First Year Free" member.

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February 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 146.580	4 QCWA Lunch, 11:30 AM @ Denny's TARC DX Net, 8 PM, W4AC Repeater 146.805	5 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	6 Breakfast @ Peach's, ± 7:45 AM	7
8	9	10 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 146.580	11 TARC DX Net, 8 PM, W4AC Repeater 146.805	12 TARC Meeting, Chat Session @ 6:30 PM, Meeting @ 7 PM	13 Breakfast @ Peach's, ± 7:45 AM	14 TARC VE Session @ 9:00 AM, Venice Public Library
15	16 DARN Emergency Net @ 11 AM & 7:30 PM, Starts on W4AC repeater 146.805	17 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 146.580	18 TARC DX Net, 8 PM, W4AC Repeater 146.805	19 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	20 Breakfast @ Peach's, ± 7:45 AM	21 SW Florida Hamfest & Computer Show, Fort Myers
22	23	24 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 146.580	25 TARC DX Net, 8 PM, W4AC Repeater 146.805	26 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	27 Breakfast @ Peach's, ± 7:45 AM	28

[Personal Events](#)

NOTE: If the W4AC Repeater is inoperative, nets scheduled for activity on the repeater will be held on the simplex frequency of 146.580 MHz. Thanks for your cooperation.

**TAMIAMI AMATEUR RADIO CLUB, INC.
MEMBERSHIP APPLICATION**

Name _____ Call Sign _____ Class ____ ARRL (Y/N)____

Local Address _____ City _____ Zip _____

Summer Address _____ City/State _____ Zip _____

Tel. No. _____ E-Mail _____ Application Date _____

Please check activity interests: Ass't Net Control __, RFI/TVI __, VE Testing __, Training __, Packet __, RTTY __,
Computers __, DXing __, Contests __, Field Day __, Publicity __, Emergency Communications __, Special Events __,
VHF/UHF __, SSTV __, ATV __, Repeater __, EchoLink __, Other (specify) _____

Single Member @ \$15.00/year __, Family Membership @ \$18.50/year __ (\$8.00 after 30 June for remainder of calendar year. \$15.00 after 31 October grants membership through remainder of year and all of the following year.)

MAIL TO: TARC, 1419 E. MANASOTA BEACH RD, ENGLEWOOD, FL 34223-6341

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1419 E. MANASOTA BEACH ROAD
ENGLEWOOD, FL 34223-6341**

The Communicator is a monthly publication
Of the Tamiami Amateur Radio Club, Inc.
Editor: Jack Sproat-W4JS
Circulation: Don Jansen-KI4VGE

2009 TARC Officers

President: Stew Haag-W4MO
V. President: Bruce Brown-WA8IQF
Secretary: Jack Sproat-W4JS
Treasurer: Don Jansen-KI4VGE
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