

THE COMMUNICATOR

Newsletter of the TAMIAMI AMATEUR RADIO CLUB

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



-- **DECEMBER 2007** -

-- PRESIDENT'S MESSAGE --

We removed the hurricane shutter from the windows of the WA3RRS QTH this past weekend, and we're grateful that no big winds have disturbed the antennas of TARC members this year. Now, all we need is a lot of rain!

Peter Pesa-N4RD had been selling quite a few advance tickets to the Tampa Bay Hamfest at our breakfast gatherings. It looks like the TARC will be well represented at that Hamfest, December 1st and 2nd. We will again have both a club table and a sales table offering a lot of surplus goodies, but we probably won't have another commercial TV transmitter like the one we managed to unload last year.

Stew Haag-W4MO will be assuming the TARC presidency in January, and so this will be my last message to you as TARC President. I've certainly enjoyed my time in office and I am most grateful to all of you for your support. We have a great club, and we can all look forward to the coming year's activities.

Happy Holidays to all!! VY 73 de Konrad-WA3RRS

-- RIGHT UP TO THE TOP --



On 24 November, Ron LeBrun-KB4RON repositioned the 2-meter W4AC Repeater antenna to the top of the 200' tower at the Newport Offices site. Previously, the array had been at about 180' AGL. The cantilevered support is for one of the inverted-V HF antennas used by the remote radios at the site.

-- PACKET GATEWAY ANTENNA --



Ron-KB4RON has just installed the 2-meter Ringo Ranger utilized by the packet gateway station at the repeater site.

-- DECEMBER MEETING --

Our next TARC meeting will be at 7:00 PM on 13 December 2007 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. Following the business meeting, Jack Sproat-W4JS will offer a series of photos detailing the construction of his 70' tower and installation of the two directional antennas. So, come on out and show your interest in our Club.

-- REGIONAL HAMFESTS -

01-02 Dec

Florida Gulf Coast Amateur Radio Council 32nd Annual Tampa Bay Hamfest and WCF Section Convention, Manatee Civic Center, US 301 and Harban Blvd. TI: 145.190, 146.955 (PL 100), Info: Jim-KG4JSZ, 863-422-0176

08 Dec

Silver Springs Radio Club Hamfest at Marion County Extension Complex, 2232 NE Jacksonville Rd., Ocala. TI: 146.610 (PL 123 Hz)

(From December *QST* and web site of Bill Britton KB4VOL)

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TAMIAMI AMATEUR RADIO CLUB Minutes of the Meeting 08 November 2007

Vice President Matt Klapp-W2EQV called the meeting to order at 7:06 PM and led the pledge of allegiance. West Central Florida Section Manager Dee Turner-N4GD, of Pinellas Park, Andy Bobak-N2NDQ, of Richfield Springs, NY, Bill Bobak of Venice, Jean Ozimek-KG4VWS, of Venice, and Stan Ozimed-KG4VWR, of Venice were welcomed as visitors. Introductions were then made all around, and it was good to see both Charlie Covell-W4DB and Marty Horowitz-N4FA back with us following their operations.

MINUTES –Matt asked for a motion to accept the minutes of the 11 October 2007 meeting as published in the November 2007 issue of *The Communicator*. Marty-N4FA so moved, seconded by Peter Pesa-N4RD, and passed.

CORRESPONDENCE – Secretary Jack Sproat-W4JS commented on the recent receipt of publicity information from the LookUp941.org, a youth support group sponsored by Sarasota County and with which TARC is registered.

TREASURER'S REPORT — Treasurer Don Gray-WD7A reported that the 11 October starting balance was \$3904.74. Receipts were \$12.00 from the August 50/50 drawing, \$200.00 from sale of the ICOM IC-761, \$36.00 from Christmas Dinner reservations, and \$30.00 from new member dues, totaling \$278.00. Expenses were \$11.62 for Internet service at the repeater, \$500.00 for conversion of the generator engine, \$14.75 for call sign badges, and \$11.40 for newsletter printing and postage, totaling \$537.77. The 08 November ending balance is \$3644.97. Diana Gregory-KI4GRF moved acceptance of the report, seconded by Charlie Covell-W4DB, and passed.

COMMITTEE REPORTS

SUNSHINE – All were advised of the death of Joe Kato, Jr., the son of Joe Kato-KE4WVA. Marty-N4FA announced the time and location of the service.

VE TESTING – Jack-W4JS stated that three candidates are expected at our 10 November VE session.

REPEATER/TECHNICAL – Stew Haag-W4MO reported that the power was off for the remote base and packet radio, and that he would be investigating the problem. Stew also commented that he was considering installation of a simplex EchoLink mode that would enable remote access to our 146.580 Simplex Net.

CLUB PROPERTY – Peter-N4RD reported that the ICOM IC-761 was sold at the Melbourne Hamfest for \$200.

PUBLICITY/MEMBERSHIP – Don Gray-WD7A reported that we now have 78 members. This includes five Life Members and six first-year free members.

NET OPERATIONS – Jack-W4JS remarked that we are getting 6 to 8 stations checking into the Tuesday night Simplex Net and 8 to 12 into the Thursday night Emergency Net.

PUBLIC RELATIONS – Diana Gregory-KI4GRF reported that the Venice Gondolier Sun reporter working with the TARC biographical material she had submitted had contacted Jack-W4JS for further information about the club.

LIAISON TO EARS – Marty Horowitz-N4FA reported that the EARS is having extreme difficulty finding members willing to serve as officers and may have to disband if nothing changes.

LIAISON TO QCWA – Jack-W4JS reported that there were 29 Suncoast Chapter 53 members and friends at the 07 November luncheon/meeting at Denny's on Bee Ridge Road in Sarasota. The next meeting will be 05 December with a program by Crime Prevention of Florida, and Jack invited anyone interested in the QCWA to attend these events the first Wednesday of each month.

OLD BUSINESS – Several pending items remain:

- ➤ 2008 Membership renewals and Christmas Dinner reservations Don-WD7A reported that 11 members have renewed for 2008 and that he has received payment for two reservations for the dinner.
- ➤ Potential for Training at Pine View School No follow up has been reported to date.
- ➤ Gateway Packet Station A local volunteer climbed the tower at the repeater site to where an existing antenna is to be replaced with the new 2-meter antenna. However, he claimed the existing antenna was too big for him to handle without assistance, and he gave up. As professional tower people are coming 09 November to finish up tower/antenna work for Jack-W4JS, it was proposed that they be asked to do this work at the repeater site. Jack estimated it would cost in the range of \$250 for this work. Mike Hickey-NY4P moved that this contractor be authorized to do the work, on the assumption that charges would be reasonable. Jim LaCourse-K4IH seconded the motion, which passed on voice vote.

NEW BUSINESS – Several items of interest were raised:

➤ Progress by Nominating Committee – Peter Pesa-N4RD reported that he and Marty Horowitz-N4FA had scoured the TARC membership roster, searching for members willing to serve.

See MINUTES, page 5

CURRENT/PENDING DX ACTIVITY & PROPAGATION FORECASTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY	BEAR-	HF BANDS and BEST OPENING TIMES (GMT)							
	PERIOD	ING	80	40	30	20	17	15	12	10
French Polynesia – FO5RU	Now to 15 Jan	243	03-13	03-14	03-15	15-00	16-22	17-22	17-22	19-20
Qatar – A7/G0MKT	Now to 05 Jan	44	22-04	20-05	19-22	13-15	14-15	1500	NO	NO
Tunisia – 3V8SS **	Now to 20 Dec	57	21-08	20-08	13-22	13-18	15-16	15-16	NO	NO
Revilla Gigedo – XF4YK, XF4YW & 6E4LM	Now to 15 Dec	259	22-14	00-24	14-00	15-21	16-21	17-19	NO	NO
Indonesia – YB1AQB	Now to 15 Dec	327	10-13	09-14	13-14	14-19	16-18	16-19	NO	NO
Mali – TZ6JA	Now to 14 Dec	82	22-08	19-09	13-23	14-20	15-19	16-19	NO	NO
Cambodia – XU7BUM **	Now to 12 Dec	349	11-12	11-13	13-14	15-18	15-18	NO	NO	NO
Mozambique – C91KDJ **	Now to 10 Dec	101	22-04	21-04	20-00	13-21	14-20	15-19	15-19	NO
The Gambia – C56JJ	01 - 11 Dec	88	22-09	19-10	12-23	13-22	15-20	15-18	15-18	NO
Burkina Faso – XT2WC	06 Dec – 05 Jan	83	22-08	20-09	18-22	13-21	15-19	15-19	NO	NO
Mariana Is – KH0/Japanese Operators	07 – 10 Dec	306	07-13	05-15	13-16	20-22	21-22	NO	NO	NO
Palestine – E4/OM2DX	14 – 22 Dec	49	21-06	20-07	17-22	14-16	1500	1500	NO	NO
Rotuma Is – 3D2AG/p	15 Dec – 20 Jan	263	06-13	05-15	08-16	18-23	18-22	19-21	19-21	NO
Palau – T88YU, T88LY & T88GS	17 – 22 Dec	306	07-13	06-15	13-16	13-16	16-17	13-16	NO	NO
Palau – T88RY	25 Dec – 02 Jan	306	07-13	06-14	13-16	21-22	15-16	NO	NO	NO
Ogasawara – JD1BMH	29 Dec – 04 Jan	317	07-13	05-14	13-17	21-22	2130	NO	NO	NO
Thailand – HS0ZFI	01 – 20 January	355	11-12	12-13	13-15	15-18	15-19	NO	NO	NO

Updated 28 November 2007, based on 28 November 2007 QRZ DX, 26 November 2007 The Weekly DX, and http://www.ng3k.com/

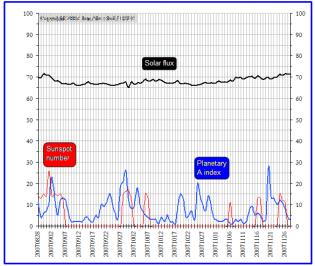
Note: **Time in bold** = Best Band(s) for opening; ??? = Call Sign not yet known; ++ = Phone Only; ** = CW Only; NO = No Opening forecast.

Long Path bearings and opening times are underlined. All forecasts are calculated using W6ELProp V.1.03 propagation software, available at http://www/qsl.net/w6elprop/ by Sheldon C. Shallon-W6EL. Solar Flux and K-index varied in accordance with NOAA 27-day forecast.

-- NOVEMBER SOLAR ACTIVITY --

During November, the Solar Flux ranged from 67 to 72, with a mean value of 69.6 (vs. 86.3 for November 2006 and 86.5 for November 2005). The Aindex was < 10 on 25 days.

Solar activity was very low during November. Recurrent coronal hole high speed streams (HSS) caused active geomagnetic conditions 13-14 November, quiet to major storm levels 19-20 November, unsettled conditions 23 and 25 November.



(Courtesy of Jan Alvestad, the DX-Listeners Club, http://www.dxlc.com/solar/)

-- TARC DUES REMINDER -

Yep, it's time to send a check or drop some cash with our TARC Treasurer for your US\$15 2008 dues. Those who received a year's free membership prior to October 2006 must now pay to stay with us.

-- DECEMBER FORECAST --

During December, solar activity is expected to be very low. No proton events are expected. The greater than 2 MeV electron flux at geosynchronous orbit is expected reach high levels 01, 16, and 18-24 December and again 16-26 November. The solar flux should remain around 68-70 during December, i.e., essentially no sunspots during the month.

Activity is expected to be quiet 01-16 December. Geomagnetic activity may increase to quiet to unsettled conditions 11-13 December. Activity is expected to increase to active to minor storm levels 17-18 December due to recurrent coronal hole HSS. From 19-23 December, activity should be unsettled to active due to a series of coronal HSS. Activity should decline to mostly quiet levels on 24 december and remain so through the rest of the month.

(From NOAA Weekly Highlights and Forecasts, 27 November 2007, NOAA 27-day Space Weather Outlook Table, 27 November 2007, and 45 Day AP Forecast, USAF, 27 November 2007.)

-- HOW LONG IS SOLAR MINIMUM? --

If a solar minimum is when the smoothed sunspot number (SSN) is ≤ 20 , and all 22 solar minimums are reviewed, a histogram may be plotted. These data show that the most likely number of months for a solar minimum is 21 to 30. Cycle 23 declined through a SSN of 20 in February 2006, therefore the earliest start for Cycle 24 would be October 2007 and the latest will be July 2008. "Stay Tuned!"

(From "How Long is Solar Minimum?", Carl Luetzelschwab-K9LA, supplement to *QRZ DX 2007-45*)

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CONTESTS & ACTIVITIES

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange	
TARA RTTY Melee	0000Z 01 Dec	160 – 10 Meters	Anyone, Anywhere	R/S + State/	
	2400Z 01 Dec	RTTY Only		Province	
Top Operators Activity Contest	1600Z 01 Dec	80 Meters	Anyone, Anywhere	R/S/T + Serial	
	1800Z 02 Dec	CW Only		Number	
ARRL 10-Meter Contest	0000Z 08 Dec	10 Meters	Anyone, Anywhere	R/S/(T) + State/	
	2359Z 09 Dec	Phone & CW		Province	
PSK31 Death March	0000Z 15 Dec	80 – 6 Meters	Anyone, Anywhere	Name + State/	
	2400Z 16 Dec	PSK31 & PSK63		Province	
Croatian CW Contest	1400Z 15 Dec	160 – 10 Meters	Anyone, Anywhere	R/S/T + Serial	
	1400Z 16 Dec	CW Only		Number	
Czech DX RTTY Contest	0000Z 15 Dec	80 – 10 Meters	Anyone, Anywhere	R/S/T + CQ	
	2400Z 15 Dec	RTTY Only		Zone	
Radio Amateurs of Canada	0000Z 29 Dec	160 – 2 Meters	Anyone, Anywhere (Ca-	R/S/(T) + Serial	
(RAC) Winter Contest	2359Z 29 Dec	Phone & CW	nadians give most points)	Number	
ARRL Straight Key Night	0000Z 01 Jan	160 – 10 Meters	Anyone with a Straight	Conventional	
	2359Z 01 Jan	CW Only	Key—send "CQ SKN"	CW QSO	

From December 2007 issues of QST and WorldRadio

-- WRC-07 WRAP UP --

The 2007 World Radio Communication Conference (WRC-07) of the International Telecommunication Union (ITU) in Geneva, Switzerland drew to a close 16 November. Amateur Radio issues were a minor part of the WRC-07 agenda, however, there were some items of interest to hams worldwide.

On the down side, there will be no new Amateur Radio allocation in the range of 5 MHz, now or in the future.

A number of achievements occurred on the positive side:

- All amateur allocations were maintained, including the 7.200-7.300 MHz in ITU Region 2 (the Americas).
- A new worldwide secondary allocation at 135.7-137.8 kHz with a maximum radiated power limit of 1.0 W e.i.r.p.
- Inclusion of an item "To consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the Amateur Service on a secondary basis, taking into account the need to protect existing services" on the provisional agenda for WRC-11 (set for 2011).
- Avoidance of future agenda items that pose serious threats to key amateur allocations.
- Some improvements in the so-called "country footnotes" that provide for different allocations by country in all or part of the 1.8, 3.5, 50 and 430 MHz amateur bands.

(From The ARRL Letter, Vol. 26, No. 46)

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-- ONE HAPPY CAMPER --



What with the W4AC antennas all in place, how can Stew Haag-W4MO be anything but a happy camper? Stew's put a lot time, effort, and personal funds into the radios and equipment at our repeater site. When you've the chance, take the time to say "Thanks" for what he's done over the past years.

-- GEOSTATIONARY HAM SATELLITE -

AMSAT says it's working on a deal with Intelsat to put amateur radio transponders on a future commercial satellite in geosynchronous orbit (i.e., it appears to be in the same spot overhead. This was announced at the recent 2007 AMSAT Space Symposium. AMSAT officials said there's enough in place to begin planning engineering work. This payload could provide audio, video and digital modes, plus provide relays for school contacts in the ARISS program.

(From CQ Newsroom 20 November 2007)

MINUTES, from Page 2

From our total membership, they found one candidate for each position. Peter then opined that, as nobody else was willing to serve, why not have our annual election at this time? Charlie Covell-W4DB moved that the nominations be closed and Bob Avrutik-N1RA seconded the motion, which passed on voice vote. Mike Hickey-NY4P moved that the ballot of nominees be accepted by acclimation, seconded by Cullen Murphy-K1IXZ, and passed by voice vote. Secretary Jack Sproat-W4JS then read the names of the nominees:

President: Stew Haag-W4MO Vice Pres: Bruce Brown-WA8IQF Secretary: Jack Sproat-W4JS Treasurer: Don Jansen-KI4VGE Director: Bob Avrutik-N1RA Director: Charlie Covell-W4DB Director: Konrad Owens-WA3RRS Director: Jon Hamlet-W4ZW

The Secretary then cast one ballot in favor of all of the above nominees. Bob-N1RA moved to thank the committee for its efforts, seconded by Dil Kay-W8DIL, and passed.

- ➤ Audit Committee The committee members, Bruce Brown-WA8IQF and Guenther Hennig-KF4WFA, will meet with Treasurer Don Gray-WD7A and Treasurer-elect Don Jansen-KI4VGE at 9:00 AM on Tuesday 13 November in the Computer Lab of the Jacaranda Public Library.
- ➤ Update of Scout Merit Badges Bruce Brown-WA8IQF has the forms required to authorize a person to be a merit badge councilor. Selection of the proper personnel remains to be done. Bruce commented that there are two merit badges available: Radio and Electronics; although neither one entails getting an Amateur Radio license.
- ➤ Participation at Tampa Bay Hamfest WCF SM Dee Turner provided advance sale tickets, which were purchased by about a dozen members. Dee advised that the club should reserve tables with Low Mallow-AG4OD as soon as possible, as the tables are going fast. The club also wants a sale table, which will cost \$10. If members want to sell items from the table, they should advise Stew-W4MO as soon as possible regarding what they want to sell and their asking price. The club will receive 10% of the final selling price.
- ➤ Friday Breakfast Venue With the sudden closing of Denny's, Bruce-WA8IQF proposed the members meet at Nick's Café on Shamrock Blvd. Following discussion and show of hands, the next breakfast will be at Nick's.

COMMENTS FROM THE FLOOR – Mike Hickey-NY4P commented that he has several items for sale, including a handitalkie, a 25-watt power supply and a MFJ low pass filter.

ADJOURNMENT – A motion to adjourn at 7:53 PM was made by Dil-W8DIL, seconded by Bernie Holtman-W4GO, and passed. There were 24 members and five visitors present.

PROGRAM – West Central Florida Section Manager Dee Turner-N4GD offered insight and updates on recent activities within both the ARRL and the WCF Section.

Jack Sproat-W4JS Secretary

-- PROJECT COMPLETED! --



The Communicator for November showed several photos of the Collins 51S-1 receiver Bob Marchese-K1NOK was refurbishing. After seeking out and obtaining needed replacement parts from all corners of the world, Bob has completed the restoration project. Now, he can sit back and proudly reflect upon his efforts. She is a real beauty, Bob!!

--DARN REMINDER AND GREETINGS -

A reminder that the Diocese Amateur Radio Network conducts radio checks the **2**nd **Monday** of each month at 11:00 AM and 7:30 PM. The activity starts on our W4AC Repeater; 146.805 MHz(-) w/100 Hz PL. The net then moves to the WX4E Repeater in Punta Gorda; 146.745 MHz. The net then moves to the KC4GOA repeater in Punta Gorda; 146.685 MHz(-) w/136.5 PL. TARC members are invited to participate.

The DARN wishes one and all Peace, Joy and Happiness during the Christmas Season and throughout all of the New Year.

-- CHRISTMAS DINNER REMINDER -

Don't forget to get your reservations for our Christmas Dinner. See Page 7 for details.

-- W4JS TOWER PROJECT --



09 November was the BIG DAY, as the 4-element SteppIR beam was ready for installation on the 70' tower. Here, Ron-KB4RON checks the angle and progress of climb, communicating via 2 meters with Julio-W4HY at the electric winch.



The new beam is in place and Ron begins dressing the antenna's control cable down one tower leg.



Here they are—the Tower Guys! Ron LeBrun-KB4RON (1) from Zephyr Hills and Julio Peralta-W4HY from Lutz. Ron has some 20 years tower experience, and Julio handles the ground work and administrative tasks.

-- IMAGINED VS. EFFECTIVE GAIN --

One of the correspondents on the TowerTalk e-mail reflector recently commented that when he was in the military they "salted" the ground adjacent to their antennas, such that they gained about 5% improvement in their signals. Dave Branson-KC0LL took exception with this claim, and backed it up with the relative numbers, to wit.

If you have a normal receiver with 6 dB per "S unit," you must go from 100 watts to 400 watts, a 400% increase, to gain one "S unit" in accordance with the standard equation for power gain, $G(dB) = 10 \log_{10}(P_2/P_1)$. A 200% power increase would result in 3 dB gain, or a ½ S unit increase; a 50% power increase, to 150 watts, would give about 1.7 dB gain or about ¼ of a S unit. Similarly, a 5% power gain to 105 watts would yield 0.21 dB gain, or 0.035 S unit. One S unit on the S-meter of an IC-775 measures about 2.5 mm, equivalent to the thickness of about 20 sheets of 20# paper. Therefore a 5% power gain would move the S-meter needle less than the thickness of a sheet of paper.

Could anyone detect that difference? Perhaps another example of "military lore"?

-- ANY CLUES ABOUT CYCLE 24? -

The past several months have seen rather long runs of consecutive days without any sunspots. During September there was a run of 21 days without any sunspots. From 08 October to 05 November, no sunspots were seen for 29 days. Is it unusual to have so many days with any sunspots at solar minimum? Does the length of consecutive days without sunspots forecast the sunspot maximum for the next cycle?

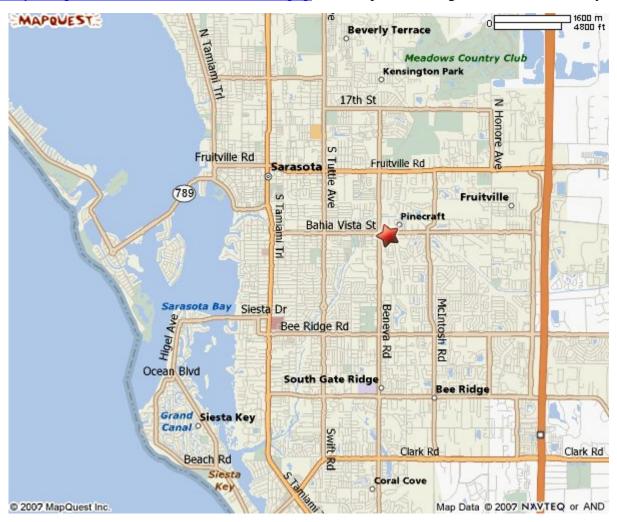
Between Cycle 22 and Cycle 23, there were 42 days with no sunspots; 13 September 1996 through 24 October 1996. However, between Cycle 19 and Cycle 20, the maximum number of days without sunspots was only 15 days; 15 – 29 September 1964.

A plot of the smoothed sunspot number of the following cycle vs. the consecutive days at solar minimum with no spots shows no correlation. Therefore, on the basis of days without sunspots, we have no idea of when Cycle 24 will begin or its intensity.

In spite of no sunspots, there has been decent propagation during October and November. There are three reasons. First, sunspots, and the Solar Flux, are proxies for the true ionizing radiation of the F_2 region, so they don't tell the true story. Second, moving into the fall and winter months changes the composition of the upper atmosphere, resulting in higher F_2 region MUF. Third, daily variability of the F_2 region depends more on geomagnetic field activity. (From "Another Day Without Any Sunspots," Carl Luetzelschwab, supplement to QRZ DX)

TARC CHRISTMAS DINNER

The Tamiami Amateur Radio Club's 2007 Christmas Dinner will be held at 6:00 PM on 19 December at Troyer's Dutch Heritage Restaurant, located at 3713 Bahia Vista Street, Sarasota, FL 34232 (941-955-8007). We will be offered a buffet to choose from, with dessert being served at our tables, at a cost of US\$18 per person. Should you desire details on this highly rated restaurant, check their web site at http://troyercorp.com/restaurant/sarasota/sarasota.php. See map below for general location of Troyer's.



(CUT ON ABOVE LINE)

Enclosed please find US\$ Dinner.	as payment for	person(s) to att	tend the 2007	TARC	Christmas
Name		_ Call Sign			

Return this portion of this page, with check payable to the Tamiami ARC, on or before 13 December, to:

Donald Gray 761 Mangrove Road Venice, FL 34293

(NOTE: If you care to do so, you may add payment of your US\$15.00 2008 dues to the cost of your dinner reservation, all in one check.)

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		
Please check activity interests: Ass't Net Control	, RFI/TVI, VE Testing,	Training, Packet, RTTY,
Computers, DXing, Contests, Field Day_	_, Publicity, Emergency Cor	nmunications, Special Events,
VHF/UHF, SSTV, ATV, Repeater, Ech	noLink, Other (specify)	
Single Member @ \$15.00/year, Family Membership @ \$18.5 grants membership through remainder of year and all of the following	• :	inder of calendar year. \$15.00 after 31 Octobe

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

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Editor: Jack Sproat – W4JS

Circulation: Jack Sproat – W4JS

Circulation: Don Gray – WD7A

2007 TARC Officers

President: Konrad Owens – WA3RRS
V. President: Matt Klapp – W2EQV
Secretary: Jack Sproat – W4JS
Treasurer: Don Gray – WD7A
Directors: Croft Taylor – VE3CT
Jon Hamlet – W4ZW

Charlie Covell – W4DB Stew Haag – W4MO