



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 – 444.100 MHz & 146.805 MHz(-) w/100 Hz PL
Web Site – <http://tamiamiarc.org>



-- OCTOBER 2010 --

-- PRESIDENT'S MESSAGE --

As this issue of *The Communicator* is being wrapped up, I'm out in Texas enjoying some time with 6-meter enthusiasts. One of their goals is to work Fiji on 6 meters via EME ("moon bounce"). The growing popularity of 6 meters is evident by the fact that virtually every HF transceiver also offers 6-meter capability. Removal of TV broadcasting from the VHF frequencies also has eliminated the former threat of TVI when operating 6 meters.

Kay Craigie-N3KN, ARRL President, has a worthwhile message in the October QST. Her theme, "Say Yes," is something pertinent to all organizations, i.e., the need for people who are willing to say "Yes" when asked to help provide assistance to that organization. Sadly, the majority of people just want to sit back, enjoy the fruits of membership, and reply, "Oh, I can't; let someone else do it."

Of the total TARC membership, about 10 percent of the members have shown a willingness to reply, "Yes, I can." We need to improve on that. We have members with very varied backgrounds, and even our youngest members are obviously proving successful in their respective schools. There's a full spectrum of talent within our membership—talent which could be beneficial to our TARC.

The next time you're asked to lend assistance, don't be shy. Have the courage to say "Yes."

73, Stew Haag-W4MO



-- OCTOBER MEETING --

Our meeting will start at **6:00 PM** on Tuesday, **05 October 2010** in the Meeting Room of the Venice Public Library, 300 South Nokomis Avenue. A program of interest will follow the business meeting. Details will be in the e-mail "ticker." We hope to see you there.

-- AMATEUR RADIO NEWSLINE --

(The following items are taken from "Amateur Radio Newsline™ Report 1728," 24 September 2010)

GE CLOSING ITS LAST INCANDESCENT US LAMP FACTORY

General Electric is closing its last incandescent light bulb factory in the US, to comply with the Energy Independence and Security Act of 2007. (*Note how the term "security" is added to such acts to give a sense of legitimacy.*)

Rather than setting off a surge in the domestic manufacture of replacement lights such as Compact Fluorescents (CFL), they are being manufactured in China.

(*GE is also closing its "smart" electric power meter facility in Palmetto on 30 March 2011, with the loss of some 100 jobs.*)

CALIFORNIA STATION LOOSES GROUND SYSTEM A SECOND TIME

For the second time in two years copper thieves have struck the KKXX AM transmitter site in Paradise, California. The thieves made off with about 22,000 feet of No. 10 wire from the antenna's ground system. The thieves took a back road to the tower, avoiding a locked gate.

After the first wire theft in 2008, the copper ground counterpoise wires were replaced and a concrete anchor was poured about every 10 to 15 feet along the length of the wires in hopes of discouraging future thefts. However this time, the thieves cut and removed the wires between the concrete.

According to a scrap copper website, that kind of wire is fetching between \$1.22 and \$2.75 a pound

TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
07 September 2010

President Stew Haag-W4MO called the meeting to order at 6:08 PM and, following a flag salute, introductions were made all around.

MINUTES – Secretary Jack Sproat-W4JS asked for a motion to accept the minutes of the 03 August 2010 meeting as published in the September 2010 issue of *The Communicator*. Peter Pesa-N4RD so moved, seconded by Jack Gaddas-KY1Z, and passed.

CORRESPONDENCE – Jack reported that he had received a copy of the obituary for former TARC member Don Dold-KD9SJ, who passed away 21 August at the age of 91 up in Greenwood, Indiana.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE reported that the starting balance was \$957.16. Receipts were \$11.00 from the August 50/50 and \$8 in dues, totaling \$19.00. Expenses were \$14.80 for DayStar Internet service. The 07 September 2010 ending balance is \$961.36.

COMMITTEE REPORTS

SUNSHINE – Nothing to report.

VE TESTING – Jack-W4JS stated that our next regularly scheduled VE session will be at 10 AM on 11 September, and Jack Gaddas-KY1Z will be in charge. There has been one inquiry to date.

REPEATER/TECHNICAL – The 146 and 444 MHz repeaters are operational. The remote Kenwood radio is operational from the repeater site. The EchoLink mode has not been reactivated to date.

CLUB PROPERTY – No inventory changes.

PUBLICITY/MEMBERSHIP – In the absence of vacationing San Yoder-K3SY, Jack-W4JS reported that we now have 106 members, including nine Life Members, 33 First-Year Free members, and 63 dues paying members. There are 44 Amateur Extra, seven Advanced, 20 General and 35 Technician class licensees.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG was not present. Stew-W4MO commented that turnout for the nets has been very poor, with no more than three or four members participating.

LIAISON TO EARS – No one was present who could report on activity by the Englewood ARS.

LIAISON TO QCWA – Jack-W4JS stated that Suncoast Chapter 53's 01 September lunch at the Panda Pavilion in Venice attracted 14 mem-

bers/spouses/friends. Our next luncheon meeting will be 06 October at Denny's on Bee Ridge Road in Sarasota. Hans Napfel-WB2ZZB is working on a Power Point program showing 2009 vacation activities of some members. All are welcome to come out, have lunch and enjoy the camaraderie.

OLD BUSINESS – Hans-WB2ZZB has volunteered to see if he can repair the Club's digital projector, and Vic Ouellette-K1CGI is taking the projector up to Hans.

NEW BUSINESS – Nothing.

COMMENTS FROM THE FLOOR – In response to a query, Stew advised that the frequency of our UHF repeater is 444.100 MHz output and 449.100 MHz input.

ADJOURNMENT – A motion to adjourn at 6:23 PM was made by Charlie Covell-W4DB, seconded by Ron Pedersen-KJ4EVJ, and passed. There were 16 members present.

PROGRAM – The video of the October 2009 K4M DXpedition from Midway Atoll was shown.

Jack Sproat-W4JS
Secretary

-- REGIONAL REPEATERS --

Arcadia	W4MIN	147.075(+)	100 Hz
Arcadia	W4MIN	147.180(+)	
Englewood	N4EAR	146.700(-)	77 Hz
Englewood	K0DGF	146.775(-)	77 Hz
Englewood	W4AC	146.805(-)	103.5 Hz
Grove City	K8ONV	146.865(-)	136.5 Hz
Laurel	N4SER	145.130(-)	100 Hz
North Port	K4NPT	147.120(+)	136.5 Hz
North Port	W0AC	146.970(-)	136.5 Hz
Pt. Charlotte	N4FOB	146.925(-)	136.5 Hz
Pt. Charlotte	KS4ST	147.015(+)	
Pt. Charlotte	W4DUX	147.255(+)	136.5 Hz
Punta Gorda	WX4E	146.745(-)	136.5 Hz
Punta Gorda	KF4QWC	146.685(-)	136.5 Hz
Sarasota	W4IE	146.910(-)	
Sarasota	N4SER	146.730(-)	100 Hz
Sarasota	N4SER	147.390(+)	100 Hz
Sarasota	KF4RJC	145.370(-)	74.4 Hz
Verna	NI4CE	145.430(-)	100 Hz

NOTE: The 145.130 repeater in Laurel now requires a 100 Hz PL tone in order to access that repeater.

-- FIRST JA-VE 2200 METER QSO --

On 28 September JA7NI in Akita, Japan and VE7TIL in Vancouver, BC completed a successful QSO on 7162 KHz along a 7162 km path. Not the furthest, but the first transpacific QSO.

(From the *ARRL Letter On Line*)

CURRENT/PENDING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEAR-ING	HF BANDS and BEST OPENING TIMES (GMT)							
			80	40	30	20	17	15	12	10
Marion Island – ZS8M; active daily	Now to May '11	130	--	22-05	--	18-20	17-20	17-18	NO	NO
Afghanistan – T6JC, T6TL	Now to May '11	26	23-02	22-03	23-01	13-15	13-15	1400	NO	NO
Madagascar – 5R8HT, by F4DBJ	Now to 28 Nov	90	22-03	22-04	--	18-21	--	16-18	--	NO
Egypt – SU/HA3JB, all modes	Now (?) to Nov	54	22-05	20-06	21-01	13-18	15-17	16-18	16-18	NO
Zimbabwe – Z2/AC7GP; all modes	Now to 01 Nov	97	22-04	21-05	21-02	15-22	14-20	15-19	17-18	17-18
Mariana Is – AH0BT ++	02 to 03 October	306	08-12	06-13	10-13	14-16	21-23	21-22	21-22	NO
Tanzania – 5H9PD; ** and PSK31	02 to 30 October	83	23-04	22-05	21-01	17-22	15-21	16-19	17-19	NO
Madagascar – 5R8RJ	04 to 29 October	90	22-03	22-04	22-00	18-21	17-19	16-18	16-18	NO
Ascension Is – ZD8ZZ	06 to 19 October	108	22-08	20-09	20-04	12-00	14-22	15-21	18-19	2000
St Barthelemy Is – TO7ZG; German ops	06 to 20 October	114	20-12	00-24	13-08	12-00	14-22	15-21	17-19	17-19
Marshall Is – V73QQ (tentative call sign)	07 to 22 October	282	05-12	04-14	12-14	19-00	19-22	19-22	20-22	NO
Temotu Is – H40KJ, H40BQ; ** and RTTY	07 to 22 October	270	06-13	05-14	11-14	22-01	20-23	20-22	20-22	NO
Svalbard Is – JW/HB9LEY & JQ2GYU	10 to 14 October	13	23-11	22-13	21-23	14-19	15-20	NO	NO	NO
PJ2/PJ4/PJ5/PJ6/PJ7 Entities	10 to 20 October	135	20-13	00-24	00-24	12-00	13-23	15-21	16-21	16-21
Mozambique – C91DJ, C91MV, etc.; ++	15 to 31 October	101	22-04	21-05	21-02	16-23	14-19	15-19	16-19	16-19
Sable Is – CY0NOTG, AA4VK, etc.	21 to 29 October	41	21-13	11-00	13-21	16-18	NO	NO	NO	NO
Botswana – A25ZY, A25DF, etc., team oper.	21 Oct to 03 Nov	105	22-04	21-05	21-02	16-23	14-21	15-18	16-19	17-19
The Gambia – C56FR; ++	21 Oct to 11 Nov	88	--	--	--	12-23	13-21	--	--	NO
Senegal – 6V7T	25 Oct to 01 Nov	87	22-08	19-09	18-08	13-23	14-21	15-20	16-19	16-19
St. Pierre & Miquelon – FP/KV1J; all modes	26 Oct to 02 Nov	39	21-12	11-00	13-22	14-19	14-19	NO	NO	NO
Madagascar – 5R8X by Finnish team	26 Oct to 10 Nov	90	23-02	22-03	22-02	18-23	17-20	16-18	16-18	1730
Rwanda – 9X0SP, 9X0DL, etc. German team	27 Oct to 02 Nov	81	22-04	21-05	21-01	17-23	15-20	16-19	16-19	NO

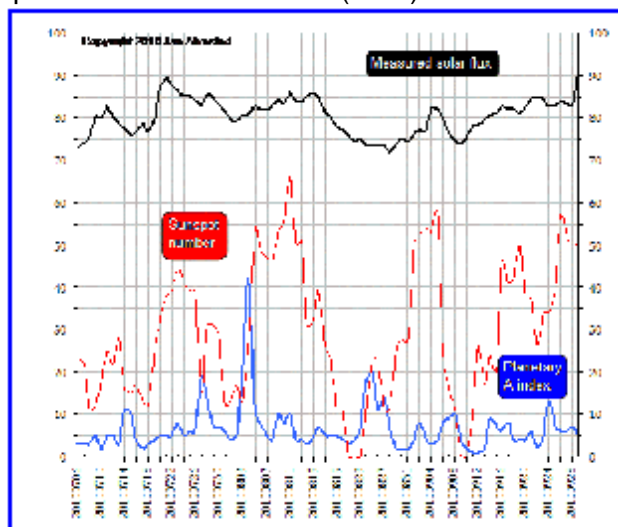
Updated 29 September 2010, based on 2 September 2010 QRZ DX, 27 September 2010 *The Weekly DX* and <http://www.ng3k.com>

Notes: **Time in bold** = Bands 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.2.60* propagation software, available to download at <http://www.qsl.net/w6elprop/>. Solar Flux and K-index varied by date in accordance with USAF 45-Day A/P Forecast.

-- SEPTEMBER SOLAR ACTIVITY --

Through 29 September the Solar Flux ranged from 74 to 91, with a mean value of 80.7 (vs. 70.4 for September 2009 and 67.1 for September 2008). The A-index was ≥ 7 on 9 days. The sunspot number ranged from 0 to 58, with a mean of 35.0.

Sunspot Regions 11105 thru 1111 were active during September, with several B- and C-class flares. However, geomagnetic field disturbances during September were generally due to recurrent coronal mass ejections causing high speed solar wind streams (HSS).



(Thanks to Jan Alvestad, <http://www.solen.info/solar/>)

-- OCTOBER FORECAST --

Solar activity is expected to be low 01-05 October with C-class flares likely from Region 1109. Activity will be at very low levels during the remainder of October.

No proton events are expected at geosynchronous orbit. The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels during the month. The solar flux should average 79.7 during October. (It's noted that September's SF exceeded the forecast.)

The geomagnetic field should be quiet 01-02 October. Activity is expected to increase to quiet to unsettled levels 03-05 October due to recurrent HSS. Quiet conditions are expected 06-10 October, increasing to unsettled levels 11-14. Quiet levels should occur 15-20, increasing to unsettled levels 21-22 October. Mostly quiet levels are expected during 23-31 October.

(From NOAA Weekly Highlights and Forecasts, 28 September 2010, NOAA 27-day Space Weather Outlook Table, 28 September 2010, and 45 Day AP Forecast, USAF, 28 September 2010)

Dolphins are so smart that within a few weeks of captivity, they can train people to stand on the very edge of the pool and throw them fish.

If I agreed with you, we'd both be wrong.

OCTOBER CONTESTS & ACTIVITIES

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
EPC Russia DX Contest	0400Z 02 Oct 0359Z 03 Oct	160 – 10 Meters Digital Only	Anyone, Anywhere	Serial and Grid Square
Oceania DX Phone Contest	0800Z 02 Oct 0800Z 03 Oct	160 – 10 Meters SSB Only	Stations in Oceania as defined by WAC rules	R/S and Serial Number
EU Autumn Sprint	1600Z 02 Oct 1959Z 02 Oct	80 – 20 Meters SSB Only	European Stations as defined by EU rules	Both Call Signs, Serial, Name
RSGB 21/28 MHz Contest	0700Z 03 Oct 1900Z 03 Oct	15 and 10 Meters SSB and CW	UK Stations only	Serial Number
South America SSB Contest	0000Z 09 Oct 2359Z 10 Oct	160 – 10 Meters SSB Only	Anyone, Anywhere but SA stations preferred	R/S and Serial
Oceania DX CW Contest	0800Z 09 Oct 0800Z 10 Oct	160 – 10 Meters CW Only	Stations in Oceania as defined by WAC rules	R/S/T and Serial
Scandinavian Activity Contest	1200Z 09 Oct 1200Z 10 Oct	80 – 10 Meters SSB Only	Stations in Scandinavian Countries/Entities	R/S and Serial
Worked All Britain HF Contest	1200Z 09 Oct 1200Z 10 Oct	20 – 10 Meters SSB Only	UK Stations only	R/S/, Serial, DXCC Entity
EU Autumn Sprint	1600Z 09 Oct 2000Z 09 Oct	80 – 20 Meters CW Only	European Stations as defined by EU rules	Both Call Signs, Serial, Name
10-10 Sprint	0001Z 10 Oct 2359Z 10 Oct	10 Meters Only SSB, CW, Digital	Members of 10-10 International	Call, Name, 10-10 #, S/P/C
Arucaria VHF Contest	0000Z 16 Oct 1600Z 17 Oct	6 and 2 Meters SSB, CW, FM	Anyone, Anywhere	R/S/(T) and Grid Square
JARTS WW RTTY Contest	0000Z 16 Oct 2400Z 17 Oct	80 – 10 Meters RTTY Only	Anyone, Anywhere	R/S/T and Age of Operator
Worked All Germany	1500Z 16 Oct 1459Z 17 Oct	80 – 10 Meters SSB and CW	German Stations only	R/S/(T) and Serial
Asia-Pacific Sprint	0000Z 17 Oct 0200Z 17 Oct	20 – 15 Meters CW Only	Asian side of Pacific rim to 180° longitude	R/S/T and Serial
Scandinavian YLRA Contest	1000Z 23 Oct 1000Z 24 Oct	80 – 10 Meters SSB, CW, Digital	YL Operators preferred but Anyone, Anywhere	OM =R/S/(T) "73" YL = R/S/(T) "88"
W/VE Islands QSO Party	1600Z 23 Oct 2359Z 24 Oct	160 – 6 Meters SSB, CW, Digital	Stations from IOTA designated Islands	R/S/(T) and S/P/C
CQ World Wide SSB Contest	0000Z 30 Oct 2359Z 31 Oct	80 – 10 Meters SSB Only	Anyone, Anywhere	R/S, CQ Zone
10-10 Fall Digital QSO Party	0001Z 30 Oct 2359Z 31 Oct	10 Meters Only Digital modes	Members of 10-10 International	Call, Name, 10-10#, S/P/C
SVHFS Fall VHF Sprint	2300Z 30 Oct 0300Z 31 Oct	6 Meters Only SSB, CW, Digital	Anyone, Anywhere	Grid Square

Legend: Serial = Sequential number of contact; S/P/C = State, Province, DXCC Entity

From ARRL "Contest Corral," October 2010 QST, October 2010 *WorldRadio Online*, and *QRZ DX* Issue 2010-38E

-- OCTOBER CONTESTS OF NOTE --

With October comes the beginning of the serious contest season. The first weekend offers the potential to work new entities out in the Pacific via the Oceania DX Contest. There can be both morning and evening/nighttime openings. The solar flux should be in the mid- to high 80s and the geomagnetic field should be quiet.

The following weekend, the CW version of the Pacific Contest, plus the ever popular Scandinavian Contest will be run. There's sure to be some of the less heard Scandinavian entities on,

but propagation to the northern latitudes may be limited. The SF around 76 and quiet conditions.

The world's most popular DX contest, the CQ WW wraps up the month. The SF should be in the mid-80s with quiet conditions. Many true-blue DXers go the extra meter or two, setting up good stations from above average DX entities. The exchange is simple. In this area, just give "5, 9, 5" for the signal report and Zone 5. This is also a good opportunity to snag some new zones toward earning CQ's great looking WAZ certificate for your wall.

-- THE REAL "DOG X-RAY" --



We understand that this pup is the "Elmer" for Tigger, the 9-lb. home-defense/attack dog owned by TARC's Bob Preston-N4CTC. Gotta admire the concentration!!

-- THOUGHTS ON CYCLE 24 --

Two recent articles regarding the current Sunspot Cycle 24 paint a rather discouraging picture. The following comes from the article "Say Goodbye to Sunspots?" by Phil Berardelli, on <http://news.sciencemag.org> on 14 September 2010 and "More on Cycle 24 and Two Recent Predictions" by Carl Luetzelschwab-K9LA in the October 2010 issue of *WorldRadio Online*.

Astronomers have been observing and counting sunspots since Galileo began the practice in the early 17th Century. Scientists studying sunspots for the past two decades have concluded that the magnetic field that triggers their formation has been steadily declining. If the current trend continues, by 2016 the Sun's face may become spotless and remain that way for decades—a phenomenon (the Maunder Minimum) that, in the 17th Century—coincided with a prolonged period of cooling on Earth.

Sunspots appear when upwellings of the Sun's magnetic field trap ionized plasma—electrically charged, superheated gas—on the surface. Normally, the gas would release its heat and sink back below the surface, but the magnetic field inhibits this process. From Earth, the relatively cool surface gas looks like a dark blemish on the Sun.

Cycle 23 ended in December 2008 with a minimal smoothed sunspot number (SSN) of 1.7. Although solar minimums between cycles normally last about 16 months, the current one has stretched over 26 months—the longest in a century. One reason, according to a paper submitted to the International Astronomical Un-

ion Symposium No. 273 is that the magnetic field strength of sunspots appears to be waning. The reasons for the decrease are not clearly understood but, if the trend continues, sunspot magnetic field strength will drop too low to produce sunspots.

There's no question but that sunspot intensity has declined significantly over the past half-century.

<u>Cycle</u>	<u>Maximum SSN</u>
19	201
21	165
22	158
23	121
20	111

The current NOAA forecast for the current Cycle 24 is that it will peak in mid-2013 with a SSN of 90. So far, in recent months, the daily sunspot number has hit the high 50's several times however there has been minimal improvement in HF propagation on the higher bands.

-- WHAT HAPPENS ON 10-10-10? --

On 10 October 2010, the Netherlands Antilles will no longer exist. While the Caribbean islands which comprise this asset of the Netherlands Kingdom will not disappear, they will take on new political status within the kingdom. As such they will also take on new status amongst the DXCC entities.

On that date, PJ2, 4, 9 – Bonaire and Curacao, and PJ5-8 – Sint Maarten, Saba and St. Eustatius will become deleted entities. While these two current entities will be deleted, four new entities will be created. PJ2-Curacao and PJ7-Sint Maarten will become two new DXCC entities. PJ5-St. Eustatius and PJ6-Saba will be the third new entity. PJ4-Bonaire will be the fourth new DXCC entity.

Numerous HF operations are planned from all these islands from 10 October on, as noted:

Curacao – PJ2T and resident operators

Bonaire – PJ4NX, PJ4LS & international team

St. Eustatius – PJ5/AA4NC, PJ5/K1XM, PJ5NA

Saba – PJ6/K4UEE

Sint Maarten – PJ7/AA4NC, PJ7/AH6HY

Other operations and updated call signs may be announced as 10-10-10 draws closer.

(From "How's DX?" Bernie McClenny-W3UR, October 2010 QST, and <http://www.ng3k.com/>)

Bureaucracy, the rule of no one, has become the modern form of despotism. Mary McCarthy, The New Yorker, 18 October 1958. (Oh, if Mary could see it now!!!!)

October 2010

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5 Breakfast @ Peach's, ± 7:30 AM TARC Meeting 6 PM @ Venice Public Library	6 QCWA Lunch, 11:15 AM @ Denny's TARC DX Net, 8 PM, W4AC Repeater 146.805	7 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	8 Breakfast @ Peach's, ± 7:30 AM	9 TARC VE Session @ 10:00 AM, Venice Public Library
10	11 DARN Emergency Net @ 11 AM; Starts on W4AC Repeater 146.805	12 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	13 TARC DX Net, 8 PM, W4AC Repeater 146.805	14 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	15 Breakfast @ Peach's, ± 7:30 AM	16
17	18	19 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	20 TARC DX Net, 8 PM, W4AC Repeater 146.805	21 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	22 Breakfast @ Peach's, ± 7:30 AM	23
24	25	26 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	27 TARC DX Net, 8 PM, W4AC Repeater 146.805	28 TARC Emergency Net @ 7:30 PM, W4AC Repeater 146.805	29 Breakfast @ Peach's, ± 7:30 AM	30
31						

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) _____

Voluntary Contribution to the Tamiami ARC Scholarship Fund _____

Single Member @ \$15.00/year ___, Family Membership @ \$20.00/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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Of the Tamiami Amateur Radio Club, Inc.
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Circulation: San Yoder-K3SY

2010 TARC Officers

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