



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
W4AC Repeater – 444.100 MHz & 146.805 MHz(-) w/100 Hz PL
Web Site – <http://tamiamiarc.org>



-- NOVEMBER 2011 --

-- PRESIDENT'S MESSAGE --

I guess the highlight of the past month for me was my attendance 14-16 October at the California hamfest known as Pacificon 2011. I have to say that those folks out on the "left coast" really know how to put on a show.

The event was held in the Marriott Santa Clara and the California Ballroom was transformed into the Exhibit Hall for the commercial exhibitors, with the flea market being outside in the parking lot. The affair ran from 8 AM on Friday to 1 PM on Sunday and, of course, I was there with the FliexRadio folks. You can check out the entire event at <http://pacificon.org/>. Or go to <http://twit.tv/show/the-tech-guy/814> and see a podcast done by Leo Laporte-W6TWT, "The Tech Guy," when he interviews Gordon West-WB6NOA, the training guru. Up to 11 rooms were busy with various forums and programs.

Amongst the varied programs, weak signal proponent Joe Taylor-K1JT gave an hour-long presentation of "Weak Signal Communication," regarding use of WSJT, SWPR and JT65. Joe was also the featured speaker at the Awards Banquet, where he talked about "Radio Astronomy: Science from Interstellar DX."

For sure, the hams out in California sure know how to put it all together.

Take a look at the article elsewhere in this edition about one of our members who also knows how to put it all together. I'm speaking of Bob Preston-N4CTC. In my opinion, we all can take pride in just knowing Bob.

73 to All de Stew Haag-W4MO

-- NOVEMBER MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **09 November 2011** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive, just west of the Venice Airport. Following the business meeting, Conrad Owens-WA3RRS and Hans Napfel-WB2ZZB will present a PP program showing highlights of Conrad's trip earlier this year to New Zealand, Australia and Fiji. It's quite interesting, so come on out!!

-- HALLOWEEN WARNING --



Gil – November 1965 QST

Yes, a "warning" to watch over your outdoor possessions and, also, a Happy Halloween to all.

-- T32C – CHRISTMAS ISLAND --



From 01–26 October, 38 hams from 11 nations
See **Christmas Island**, page 2

TAMIAMI AMATEUR RADIO CLUB

Minutes of the Meeting

12 October 2011

President Stew Haag-W4MO called the meeting to order at 7:08 PM and, following a flag salute, introductions were made all around. Bill Thoennissen-WB9BTL was recognized as a new member. Rob Lash-W4LRL, John Kennedy-N2LW, and Dennis and Carolyn Nessel—all of Venice--were welcomed as visitors. Rob and John both joined the TARC after the meeting.

MINUTES – A motion to accept the minutes of the 14 September 2011 meeting as published in the October 2011 issue of *The Communicator* was made by Hans Napfel-WB2ZZB, seconded by San Yoder-W3SY, and passed.

CORRESPONDENCE – Secretary Jack Sproat-W4JS reported that he had corrected and updated the information on the Club as shown in the ARRL web site.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE read the Treasurer's Report for September. The starting balance was \$2744.27. Receipts were \$13.00 from the September 50/50, \$35 from dues and a \$12 donation from Peter Pesa-N4RD. Expenses were \$14.91 for Internet service, \$349.33 for purchase of electric starter kit for our generator and for paving bricks, \$600 for installation of paving bricks at repeater site, and \$5 for the attendance drawing, totaling \$969.24. The ending balance is \$969.24. Fred Lathwood-KJ4TNI moved for acceptance of the report, seconded by Peter Pesa-N4RD, and passed.

COMMITTEE REPORTS

SUNSHINE – Stew-W4MO reported that he had talked via Skype to Martin Zippe-AF4ID/DJ6OM and that Martin was in good spirits. Jack-W4JS read a nice letter that had been received from Martin.

VE TESTING – Rob Lash-W4LRL, co-sponsor of the Venice High School Ham Radio Club earned his Amateur Extra license at our 08 October VE session. Rob received a round of applause.

REPEATER/TECHNICAL – The 146 and 444 MHz repeaters are operational in both analog and digital modes. The remote Flex 3000 is in service. Anyone wishing to access the Flex needs to contact Stew-W4MO for procedures.

CLUB PROPERTY – The inventory of club property has not changed.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY reported that we have a total of 70 mem-

bers, subject to change due to tonight's membership activity.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG reported that turnout for our nets remains very poor.

LIAISON TO QCWA – There were 29 members and spouses present at the 05 October luncheon/meeting of Suncoast Chapter 53. The program consisted of descriptive photos and comments from the trip Conrad-WA3RRS and Lenee Conrad took to Australia, New Zealand and Fiji. Visitors are welcome to our group the first Wednesday of the month at Denny's on Bee Ridge Road in Sarasota.

OLD BUSINESS – Nothing carried over.

NEW BUSINESS – Nothing.

COMMENTS FROM THE FLOOR – Nothing.

ADJOURNMENT – A motion to adjourn at 7:27PM was made Peter Pesa-N4RD, seconded by Bob Sullenberger-K1RCS, and passed. There were 19 members and four visitors present.

PROGRAM – Hans Napfel-WB2ZZB showed a quite informative video presentation "Amazing DX-Expeditions" which were excerpts from a number of significant DXpeditions held over the past 15, or so, years.

Jack Sproat-W4JS

Secretary

Christmas Island, from page 1

activated the Island of Kiritimati (Christmas Island) in the Northern Line Islands, a part of the Republic of Kiribati. The DXpedition was organized by the Five Star DXers Association ([FSDXA](#)) and operated using the call sign T32C. Planning for the DXpedition started over two years ago, but then "Murphy" struck. Their 8' x 8' x 20' sea container holding 16 Yaesu FT DX 5000 transceivers, 16 Yaesu VL-1000 linear amplifiers, two 11 KVA diesel generators, the antennas, coax, and much more got stuck in Fiji.

When team members learned of this problem, through the cooperation of sponsors, ten brand new Yaesu FT450D transceivers, nine linear amplifiers, and sufficient fiberglass poles were rapidly shipped to Honolulu to await hand carrying by team members to Christmas Island.

A total of 213,169 QSOs were made with 48,914 stations. Bob Avrutik-N1RA worked them in 18 of the 39 band-slots, including 10-meter FM. Dan Schaff-K3ZXL, over in Punta Gorda, was the top local with 30 band slots, putting him in 4th place in CQ Zone 5. If you didn't work this DXpedition, your radio wasn't on!

CURRENT/PENDING DX ACTIVITY & PROPAGATION HIGHLIGHTS

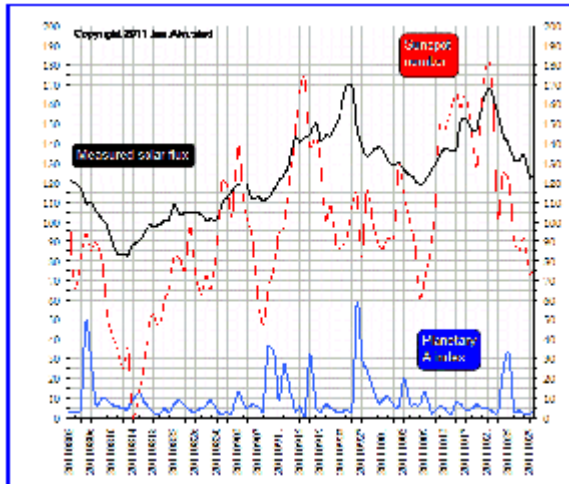
CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEARING	HF BANDS and BEST OPENING TIMES (UTC)							
			80	40	30	20	17	15	12	10
Afghanistan – T6RH, T6BP; CW, PSK31	Now Active	26	--	--	--	12-22	13-15	13-14	13-15	1400
Macquarie Is – VK0KEV, VK0TH	Now Active	220	08-12	06-12	05-12	12-14	23-01	18-06	NO	NO
Sable Is – CY0/VE1AWW; spare time op.	Now to 31 Dec	41	21-13	00-24	12-23	13-21	14-19	15-17	15-18	NO
Niue – ZK2V, ZK2X	Now to 20 Dec	252	05-12	03-14	03-14	13-01	16-00	17-00	18-23	20-22
Malawi – 7Q7HB; mostly RTTY	Now to 23 Nov	90	22-04	21-04	21-05	17-00	16-23	13-22	14-19	15-17
Malawi – 7Q7GM; **	Now to 13 Nov	90	22-04	21-04	21-05	17-00	16-23	13-22	14-19	15-17
Maldives – 8Q7EJ; all modes, holiday style	Now to 13 Nov	41	19-01	21-02	21-02	12-23	13-22	14-21	14-20	16-18
Cote d'Ivoire – TU2T; by Italian Team	Now to 11 Nov	90	--	22-07	20-09	12-00	13-23	13-21	14-20	16-18
Cocos-Keeling Is – VK9CX; all modes	Now to 10 Nov	3	NO	22-23	NO	13-01	13-18	14-17	15-16	15-16
Fiji – 3D2A, 3D2T; all modes	Now to 09 Nov	258	06-12	04-14	04-14	13-18	17-01	18-00	19-23	20-22
Singapore – 9V1RM; all modes	Now to 07 Nov	347	NO	11-12	NO	13-00	14-19	14-19	15-18	16-18
E51NOU – South Cook Is; spare time op.	Now to 07 Nov	246	04-12	02-14	02-14	13-02	16-01	16-00	17-00	19-22
Maldives – 8Q7SO; all modes; holiday style	Now to 04 Nov	41	19-01	21-02	21-02	12-23	13-22	14-21	14-20	16-18
Tahiti – TX3T; all modes by TX7M Team	01 to 04 Nov	243	03-12	01-14	02-14	15-01	15-01	16-23	17-23	19-22
Vietnam – XV2RZ; Phone and CW	01 Nov - 12 Dec	348	1100	10-13	10-13	13-00	13-18	14-16	14-16	15-17
Maldives – 8Q7CC; CW and RTTY	02 to 12 Nov	41	--	21-02	--	12-23	13-22	14-21	14-20	16-18
Easter Is – CE0Y/LA5UF; CW & PSK31	03 to 11 Nov	208	01-12	23-13	23-13	12-04	13-00	14-23	14-23	16-22
Bhutan – A52DL, A52VM; **	03 to 13 Nov	8	23-00	22-01	23-00	12-20	13-14	14-16	NO	NO
Christmas Is – VK9XM ++	08 to 14 Nov	334	11-12	10-13	--	13-00	14-17	15-17	14-15	1500
Ascension Is – ZD8ZZ, ZD8F; all modes	08 to 22 Nov	108	22-08	20-09	20-08	12-00	13-23	13-22	14-21	15-20
North Cook Is – E51???; **	08 to 22 Nov	255	04-13	02-15	01-14	13-02	16-01	16-00	17-00	17-22
Tuvalu – T2T; team op, all modes	10 Nov – 06 Dec	267	05-13	04-14	04-14	13-01	17-00	18-00	18-23	19-21
Nepal – 9N0MD; international team operation	13 to 25 Nov	13	23-01	22-01	22-02	12-17	13-14	1300	NO	NO
Madagascar – 5R8IC; CW and digital modes	15 Nov – 17 Dec	90	22-03	21-03	22-03	17-00	14-22	13-22	13-20	14-17
Saudi Arabia – 7Z7AA; 6 stations, team op	17 to 28 Nov	49	--	22-04	--	12-00	13-19	13-16	14-16	14-16
Sierra Leone – 9L0W; German team, all mode	22 Nov – 04 Dec	91	22-08	19-09	19-01	13-23	13-22	14-20	14-19	16-18
Kenya – 5Z4HW; all modes	23 Nov – 06 Dec	76	22-04	21-05	21-05	16-00	13-22	13-20	14-18	15-18
Uganda – 5X???	23 Nov – 14 Dec	77	22-04	21-05	21-05	15-00	12-22	13-21	13-21	14-19

Updated 28 October 2011, based on 26 October 2011 *QRZ DX*, 24 October 2011 *The Weekly DX* and <http://www.nq3k.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.

-- OCTOBER SOLAR ACTIVITY --

During October the Solar Flux ranged from 118 to 168, with a mean value of 137.3 (vs. 81.7 for October 2010 and 72.4 for October 2009). The A-index was ≥ 7 on 12 days. Through 30 October, the sunspot number ranged from 61 to 207, with a mean of 123.8. Sunspot Regions 1307 thru 1334 were active during October, with 119 C-class and three X-Class flares occurring. On the 24th, the planetary A went from 2 – 111.



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

-- NOVEMBER FORECAST --

Solar activity is forecast to be at predominantly low levels during November. There's potential for solar flares 01-17 November.

No proton events at geosynchronous orbit are expected. The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal levels during the month. The Solar Flux should average 138 during November.

The geomagnetic field should be quiet 01-02 November. Quiet to unsettled levels are expected 03-05 November due to a recurrent CH HSS, returning to predominantly quiet levels the remainder of the month.

(From NOAA Weekly Highlights and Forecasts, 25 October 2011, NOAA 27-day Space Weather Outlook Table, 25 October 2011, and 45 Day AP Forecast, USAF, 25 October 2011)

-- A PROPAGATION TIP --

HF propagation in November should be good all month. The solar flux forecast indicates that the best period for 10 and 12 meters, should occur 11-24 November, with the flux peaking up to 165 on 17-18 November.

MAJOR CONTESTS DURING NOVEMBER

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
Ukrainian DX Contest	1200Z 05 Nov 1200Z 06 Nov	160 – 10 Meters SSB and CW	Anyone, Anywhere	R/S/(T), Serial
ARRL November Sweepstakes	2100Z 05 Nov 0300Z 07 Nov	160 – 10 Meters CW Only	www.arrl.org/sweepstakes for full details	See Web Site
German 10-Meter Digital "Corona"	1100Z 06 Nov 1700Z 06 Nov	10 Meters Only All Digital Modes	Anyone, Anywhere	R/S/T, Serial
Worked All Europe DX Contest	0000Z 12 Nov 2400Z 13 Nov	80 – 10 Meters RTTY and PSK31	See www.waedc.de for full details	R/S/T, Serial
10-10 Fall Digital QSO Party	0001Z 12 Nov 2359Z 13 Nov	10 Meters Only All Digital Modes	10-10 Members	Call, Name, QTH
Japan International DX Contest	0700Z 12 Nov 1300Z 13 Nov	80 – 10 Meters SSB Only	Japanese Stations	R/S, CQ Zone (5, locally)
Czech-Slovak DX Contest	1200Z 12 Nov 1200Z 13 Nov	160 – 10 Meters CW Only	OK and OM Stations Only	R/S/T, Serial
ARRL EME Contest	0000Z 19 Nov 2359Z 20 Nov	50 – 1296 MHz SSB, CW, Digital	Anyone, Anywhere; see www.arrl.org/eme-contest	Call Signs, Sig Rpt, Acknment
Mongolian DX Contest	0000Z 19 Nov 2359Z 20 Nov	160 – 10 Meters SSB and CW	Anyone, Anywhere	R/S/(T), CQ Zone (5)
Bulgarian DX Contest	1200Z 19 Nov 1200Z 20 Nov	80 – 10 Meters SSB and CW	Anyone, Anywhere	R/S/(T), ITU Zone (8, locally)
ARRL November Sweepstakes	2100Z 19 Nov 0300Z 21 Nov	160 – 10 Meters SSB Only	www.arrl.org/sweepstakes for full details	See Web Site
CQ World Wide CW Contest	0000Z 26 Nov 2359Z 27 Nov	160 – 10 Meters CW Only	Anyone, Anywhere	R/S/T, CQ Zone (5, locally)

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

From ARRL "Contest Corral" and WA7BNM Contest Calendar at <http://www.hornucopia.com/contestcal/>

-- THE BOB PRESTON BUILDING --



TARC member Bob Preston-N4CTC has been living out in Colorado for several years, so many of you may not know him. Whenever Bob is back here he tries to attend our breakfasts, and he has been known to pay for some breakfasts via "remote control" from Colorado.

Bob has been very active over the past 30 years in the Victims Rights movement. The unpaid lobbying by the movement has resulted in establishing the right to be informed, present and to be heard at all stages of the criminal justice process in all 50 states. An unthinkable tragedy in the lives of all these volunteers has

enabled all of them to have their lost loved ones memorialized, and to go forward with happy lives with dear friends, such that all of today's tears are tears of joy.

The Bob Preston Building in Denver is for the Colorado Organization for Victims' Assistance (COVA). This building features state-of-the-art equipment, including such for live video conferences from people throughout the states.



The buffalo hat Bob is wearing is given to those who have been active in the movement for over 25 years, and such volunteers are known as "the Old Buffalos."

Bob, we are so proud to know you!!

-- GETTING STARTED IN PSK31 --

Of all the digital modes, PSK31 is probably the best mode for 2-way keyboard-to-keyboard QSOs on the HF bands. It is extremely efficient, easy to set up and to use, and provides for worldwide QSOs with low power and simple antennas. If you have a SSB transceiver and a computer, you already have essentially everything you need to operate PSK31, you will only need to add PSK31 software and a digital interface. The computer's soundcard will generate the transmit tones to be sent to your SSB transceiver's microphone input, and will also accept the receive tones from your transceiver's audio output, and use your computer and software to automatically decode the signals and print the text to the screen.

PSK31 is short for "Phase Shift Keying, 31 baud", because it is easily derived from the 8KHz sample rate used in many DSP systems. This allows for a very narrow bandwidth of only 31.25 Hz, and allows for a typical text speed of about 50 words per minute. Like CW, PSK31 is very effective during marginal HF band conditions.

SOFTWARE

Some of the free PSK31 software, such as the Ham Radio Deluxe series, offer an array of features and digital modes, and it is free. DigiPan 2.0 is another free program, easier to use, with the ability to automatically decode up to 26 PSK31 signals simultaneously.

FREQUENCIES

You will typically find PSK31 operation to be highly concentrated on the "normal" accepted PSK31 Frequencies:

COMMON PSK31 FREQUENCIES:

160 Meters	1838
80 Meters	3580
40 Meters	7070
30 Meters	10140
20 Meters	14070
17 Meters	18100
15 Meters	21070
12 Meters	24920
10 Meters	28120
6 Meters	50290

TUNING PROCEDURES

By convention, PSK31 operation is normally done in the UPPER sideband mode. The normal procedure is to simply set your SSB transceiver to one of the frequencies listed above and

LEAVE IT THERE! From that point, all "tuning around" is done with the mouse. Typically, you would just use your widest SSB filter, so that your waterfall display is as wide as possible, allowing for the widest decoding bandpass and waterfall "width" to be displayed

POWER

PSK31 has very narrow bandwidth and, compared to most modes, is VERY efficient. Because of this, it requires less power than most modes for effective communication. There are two reasons to keep the power down on PSK31: PSK31 is extremely efficient, and you simply don't need high power to operate PSK31. Most operators feel that anything over 30W is overkill. Also, running high power on PSK31 is being a "band hog" because you risk "swamping" the entire waterfall section of the band, pulling the receiver AGC of other stations with your overpowered signal, which can prevent other operators up and down the entire waterfall from copying desired weaker signals.

TRANSMIT DRIVE LEVEL

Closely related to the power output issue, is the matter of correctly setting your transmit drive level for PSK31 operation. The simple, easy way to do this is to watch the ALC metering function of your SSB transmitter, and make sure that when operating PSK31 your transmitter NEVER enters the ALC portion of transmit drive level. Overdriving the transmitter level is the most common mistake of new PSK31 operators.

DON'T USE UPPER-CASE TEXT

All PSK31 operators should use lower case letters wherever possible. There are TWO good reasons for this. The first reason is that "all caps" text is harder to read. Second, PSK31 is a varicode mode and PSK31 characters contain a variable number of bits. Lower-case PSK31 characters have fewer bits than their upper-case equivalents, so lower-case text transmits faster and decodes better!

SIGNAL REPORTS

Conventional CW-type signal reports such as "RST599", where "R" is "Readability" on a scale of 1-to-5, "S" is "Signal Strength" on a scale of 1-to-9, and "T" is "Tone" or transmission quality of a CW signal on a scale of 1-to-9, are used in PSK31 operation.

(From <http://members.cox.net/jrehak/PSK31.htm> by John Rehak-N6HI)

-- TO GO TO INTERNET SITES SHOWN --

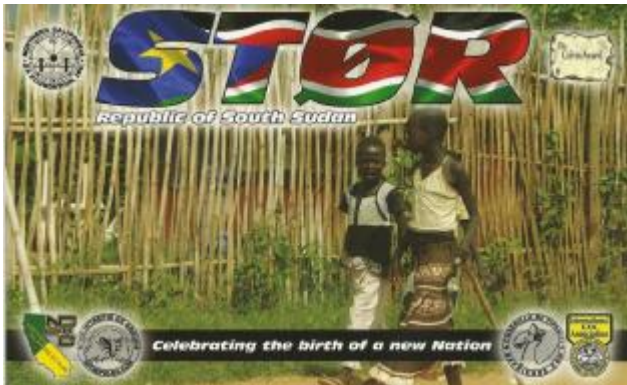
Just click your cursor on the URL shown in blue.

-- BILL'S NEW BABY --



Bill Salmon-W2IL is having a ball with his new Flex 1500, running 5 watts SSB to a dipole up 30'. Bill has set a goal of working 100 DXCC entities and, from 11 to 26 October, he's hit the half-century mark. Bill's getting good reports and he's one happy camper! Good luck with the next 50 entities, Bill!!!

-- THE REPUBLIC OF SOUTH SUDAN --



Following a referendum by the southern provinces of the Sudan, the majority voted in favor of being independent from the Khartoum government. South Sudan became an independent state 09 July 2011, and gained UN membership on 14 July 2011. The new Republic of South Sudan is one of the poorest in the world.

An international team of experienced DXers arrived in Juba, the nation's capital, soon after UN membership had been obtained, as that is one criterion for DXCC status. STOR was soon on the air, ultimately handing out 121,286 QSOs.

No person is important enough to make you angry. - Chinese Fortune Cookie

The person who removes a mountain can start the cleanup too. - Chinese Fortune Cookie

-- FIRST SNOW OF THE SEASON --



Bob Preston-N4CTC lives out in Littleton, Colorado at an elevation of 5350 feet and at some 39 deg. North latitude. So, they do get snow out there, and here's Bob's view of the first snow a few days ago.

-- MARKET REEF - OJ0X --



The L-shaped wall near the lighthouse marks part of the border between Finland and Sweden.



Some 13 European DXers put OJ0X on the air during September to mid-October. The lighthouse, built in the 19th Century, is the westernmost building in Finland, out in the Aland Sea.

November 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	2 QCWA Lunch, 11:15 @ Denny's TARC DX Net 8 PM, W4AC Repeater 146.805	3 TARC Emer- gency Net @ 7:30 PM, W4AC Repeater 146.805	4 Breakfast @ Peach's, ± 7:30 AM	5
6	7	8 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	9 TARC Meet- ing @ 7 PM, Coast Guard Training Center	10 TARC Emer- gency Net @ 7:30 PM, W4AC Repeater 146.805	11 Breakfast @ Peach's, ± 7:30 AM	12 TARC VE Session @ 10:00 AM, Venice Library
13	14 DARN Emer- gency Net @ 11 AM Starts on NI4CE re- peater 145.430	15 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	16 TARC DX Net, 8 PM, W4AC Re- peater 146.805	17 TARC Emer- gency Net @ 7:30 PM, W4AC Repeater 146.805	18 Breakfast @ Peach's, ± 7:30 AM	19 Starke Hamfest 8 AM – 8 PM TI: 145.150
20 Starke Hamfest 8 AM – 8 PM TI: 145.150	21	22 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	23 TARC DX Net, 8 PM, W4AC Repeater 146.805	24 TARC Emer- gency Net @ 7:30 PM, W4AC Repeater 146.805	25 Breakfast @ Peach's, ± 7:30 AM	26
27	28	29 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	30 TARC DX Net, 8 PM, W4AC Repeater 146.805			03 December Tampa Bay Hamfest Manatee Convention Center, Palmetto

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) _____

Regular Member @ \$25.00/year __, Family Membership @ \$30.00/year __, Non-Voting Student Membership @ \$5.00/year __ . (New Regular Members joining after 30 June pay \$15.00 for remainder of calendar year. \$25.00 dues payment 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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The Communicator is a monthly publication
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