



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



-- OCTOBER 2008 --

-- PRESIDENT'S MESSAGE --

The last paragraph of my September "Message" dealt with a possible working ham radio relationship between the TARC and Pine View School. I am truly happy to report that we are now on the right track toward helping Pine View establish a Ham Radio Club, and to assist in setting up a station at the school and helping the members of that club obtain their personal licenses. This comes after several years of individual efforts to start such a club at the school.

First, a brief recap of history for those of you not familiar with the previous informal relationship. TARC Director Jon Hamlet-W4ZW, whose son is a senior at Pine View, had demonstrated ham radio to a group of students as an adjunct to a lecture he had given on radio waves. Numerous students expressed interest in getting into ham radio, however, the vast majority of them found this to be an impossible goal as they lived in deed restricted developments which prohibited antennas. Jon offered to equip and set up a HF station at the school, however, no faculty member was willing to get a ham license and serve as trustee for the club station's license. For several years this was a moot issue.

TARC member John Watson-KI4QOG, a student at Pine View, rekindled biology teacher Martha Achroyd's interest in ham radio as she had once held a ham ticket. Martha has now taken a leading role in establishing a ham club at the school, and the TARC is behind her 100 percent. At least a dozen, and possibly more, Pine View students, two physics teachers and some parents have now expressed a sincere interest in getting their licenses. Jon's offer to equip the station still stands, and a club station license will be applied for, with Martha being the trustee as soon as she gets relicensed.

Now how can the TARC help? At the Pine View Fair on 11 October, we intend to set up a working HF station, as well as secondary equipment such as VHF/UHF equipment, computer displays, static displays, etc. and provide ARRL and TARC brochures. Obviously, this will require some manpower so we need such assistance with setup and manning the booth/station. No venue has yet been established for mentoring license classes, but we can use help in that

area. Jon can use your help when he starts setting up the club station. Can we count on you?

This is a golden opportunity for the TARC to give something to the young people who will help keep ham radio alive. This may also open the gate whereby other local schools decide to follow Pine View, and establish their own radio clubs. I see only positive results from anything we do for Pine View. Be a part of it!!

VY 73 de Stew-W4MO

-- OCTOBER MEETING --

Our next TARC meeting will start with a Technical/General Discussion at 6:30 PM, and the business meeting starting at 7:00 PM on **09 October 2008** 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, a general discussion will be held, regarding the current status and future goals and activities of the TARC.

-- GETTING DOWN TO BUSINESS --



At the September meeting, TARC President Stew Haag-W4MO (r. foreground) discusses potential assistance in developing an Amateur Radio Club at the Pine View School with teacher Martha Ackroyd (background), while Bob Avrutik-N1RA listens attentively and Mike Hickey-NY4P sips a cool one.

Borrow money from pessimists—they don't expect it back. – Steven Wright

TAMIAMI AMATEUR RADIO CLUB

Minutes of the Meeting

11 September 2008

President Stew Haag-W4MO called the meeting to order at 7:05 PM and led the pledge of allegiance. Visitor Martha Ackroyd, biology teacher at Pine View School, was recognized. Introductions were then made all around.

MINUTES – Secretary Jack Sproat-W4JS asked for a motion to accept the minutes of the 14 August 2008 meeting as published in the September 2008 issue of *The Communicator*. Guenther Hennig-KF4WFA so moved, seconded by Mike Hickey-NY4P, and passed.

CORRESPONDENCE – We received a query from Calkins L.P. Gas Co. regarding scheduling of gas service. We will request annual service. An e-mail exchange between Jon Hamlet-W4ZW and Steve Largo, the Principal of Pine View School was read in its entirety. In this exchange Mr. Largo encouraged the establishment of an amateur radio club/station at Pine View, supported by the TARC.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE reported that the starting balance was \$2640.72. Receipts were \$11.00 from the August 50/50. Expenses were \$14.45 for DayStar Internet service at the repeater, \$142.56 for Internet server Hostgator.com, and \$15 for two name tags, totaling \$172.01. The 11 September 2008 ending balance is \$2479.71. Konrad Owens-WA3RRS moved for approval, seconded by Bob Avrutik-N1RA, and passed

COMMITTEE REPORTS

SUNSHINE – Nothing reported.

VE TESTING – Jack-W4JS advised that we would have one, and possibly two, candidate(s) at this Saturday's VE session.

REPEATER/TECHNICAL – Stew-W4MO reported that both repeaters, EchoLink, the remote Kenwood TS-480, and the packet gateway are operating OK. The remote HF FlexRadio is inoperative due to BCI from WENG-FM.

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

PUBLICITY/MEMBERSHIP – Don-KI4VGE reported that we now have 76 members, including eight Life Members and five First-Year Free members.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG was not present. Jack-W4JS remarked that we've been having some 6 to 8 members checking into the Tuesday and Thursday nets, but only 3 participated in this week's DX Net.

LIAISON TO EARS – Konrad-WA3RRS reported that the Englewood ARS operation from the

Boca Grande Lighthouse for Lighthouse/Lightship Weekend was considered successful.

LIAISON TO QCWA – Jack-W4JS reported there were 12 Suncoast Chapter 53 members and friends at the 03 September lunch at the Panda Pavilion in Venice. Starting 01 October, the lunches will return to Denny's on Bee Ridge Road in Sarasota, and he invited anyone interested to join in.

OLD BUSINESS – In the absence of the Web site developers, Jack-W4JS reported on the development of the new TARC web site. JOOMLA! is the content management system being used. It's relatively easy to use for adding content and editing the site and, in addition, it is free software. George Emig-AB4BD, Jack Gaddas-KY1Z and Bruce Brown-WA8IQF did intensive "housekeeping" of the site last Saturday, removing outdated photos, etc. We do need input of material--especially photos and current articles--to increase the site content. While their photos are on the site, the officers have been asked provide current biographical data which, hopefully, may encourage the members to provide similar input. Jack and Bruce would screen input for propriety before adding to the web site. A link to a call sign database, such as QRZ.com, is to be provided as a start, and we are asking all members to forward their favorite web sites for possible inclusion on our site. Jack-KY1Z has set up a new e-mail account at tamiamiarc@gmail.com to receive all input intended for the web site.

Stew-W4MO reported that to date no member currently working on license upgrades has contacted those members who have offered to give personalized assistance. Stew urged them to take advantage of such assistance.

NEW BUSINESS – There were several items of interest:

- 1) TARC involvement with Pine View School. Martha Ackroyd told of being asked by several students if a ham radio club could be created at Pine View. As she once held an amateur radio license, she is again interested in the hobby and is willing to sponsor such a club. Martha has a meeting scheduled for next Tuesday with the Vice Principal to clarify the particulars for establishing a radio club. There is an Engineering Club at the school, and the two clubs could enhance each other. Also, at least two physics teachers may be interested in getting ham radio licenses. She is aware that Jon-W4ZW has offered to donate a complete

See **Minutes** on pg. 6

CURRENT/PENDING DX ACTIVITY & PROPAGATION FORECASTS

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
Malawi – 7Q7HB	Now to 01 Nov	90	--	--	--	17-21	--	17-18	--	NO
Temotu - H40MY	Now Active	270	06-12	05-13	06-14	19-00	19-23	20-22	20-21	20-21
Tajikistan – EY8/F4EGS (SSB & Digital)	Now to 26 Oct	22	--	22-04	22-01	12-15	12-15	NO	NO	NO
South Cook Is – E51NOU (CW only)	Now to 11 Oct	246	--	02-13	02-13	17-01	17-00	17-23	18-21	18-21
Jan Mayen – JX9JKA (SSB & Digital)	Now to 08 Oct	21	23-10	23-12	12-14	14-18	14-18	NO	NO	NO
Tunisia – 3V8SS	Now to 08 Oct	57	22-07	21-07	19-01	14-19	16-19	16-19	NO	NO
Botswana – A25/DL7DF (All modes)	Now to 06 Oct	105	23-05	21-06	20-05	16-21	13-19	15-18	17-18	17-18
Morocco – CN2IPA (mostly digital)	Now to 05 Oct	64	22-08	20-08	18-01	13-21	15-20	17-19	17-19	NO
Agalega & St Brandon – 3B7FQ	01 – 30 October	82	23-02	21-03	21-00	16-20	14-18	16-17	NO	NO
South Georgia Is – VP8DIF	01 – 31 October	155	23-08	23-09	22-09	19-00	14-22	15-20	15-20	NO
Afghanistan – T6EE (14.2 MHz only)	05 – 31 October	26	--	--	--	13-15	--	--	--	--
American Samoa – KH8/DL2AH ++	07 – 27 October	256	--	04-13	07-13	17-00	18-22	18-21	18-21	NO
Willis Is – VK9DWX	09 – 27 October	271	07-12	06-13	07-14	13-14	20-23	21-22	21-22	NO
Andaman & Nicobar Is – VU4???	24 Oct – 03 Nov	8	23-00	2330	12-13	14-18	16-17	16-17	NO	NO
Lakshadweep Is – VU7???	24 Oct – 03 Nov	36	22-01	21-02	20-23	13-21	15-18	15-18	NO	NO
Papua New Guinea – P29NI	28 Oct – 03 Nov	283	07-13	06-14	12-15	20-22	20-22	2100	NO	NO
Oman – A43DLH	30 Oct – 11 Nov	43	22-03	21-00	20-23	13-15	13-15	NO	NO	NO

Updated 28 September 2008, based on 22 September 2008 *The Weekly DX* , and <http://www.ng3k.com/>

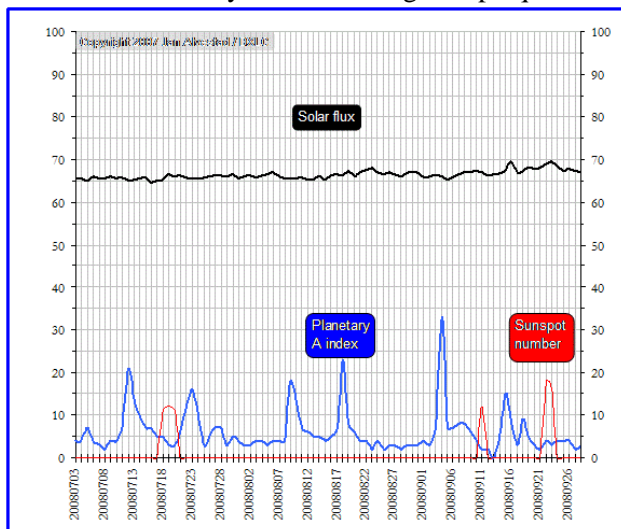
Notes: **Time in bold** = Band(s) with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly Phone; ** = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts are calculated using *W6ELProp V.1.03* propagation software, available at <http://www.qsl.net/w6elprop/> by Sheldon C. Shallon-W6EL. Solar Flux and K-index varied in accordance with USAF 45-Day AP Forecast.

-- SEPTEMBER SOLAR ACTIVITY --

During September, the Solar Flux ranged from 65 to 69, with a mean value of 67.1 (vs. 67.1 for September 2007 and 75.4 for September 2006). The A-index was ≤ 10 on 28 days.

September's geomagnetic field activity was at quiet to unsettled levels during the month, other than major storm levels on 04 Sept, active to minor storms on 08 Sept, and minor to major storms on 18 Sept due to recurrent coronal hole high speed streams (HSS).

Two groups of Cycle 24 sunspots did appear during September; see figure below. Neither group lasted more than a few days before fading into plaque.



(Courtesy of: Jan Alvestad, DX Listeners Club <http://www.dxl.com/solar/>)

-- OCTOBER FORECAST --

October 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 reach high levels 01-14 October. Solar flux should range between 67 and 70 during the month.

Geomagnetic field activity is expected to be at active to minor or major storm levels on 01 October, due to a recurrent coronal hole HSS. Activity is expected to decrease to quiet to unsettled levels during 02-05 October as the HSS subsides. Quiet conditions are expected 06-11 October, increasing to active levels 12 October due to recurrent HSS. Activity should decrease to quiet levels 13-27 October. Minor to major storm levels should occur 28 October, returning to quiet to unsettled conditions 29-31 October

(From NOAA *Weekly Highlights and Forecasts*, 26 August 2008, NOAA *27-day Space Weather Outlook Table*, 23 September 2008, and *45 Day AP Forecast*, USAF, 26 September 2008)

-- EXCELLENT PROPAGATION PRIMER --

There's an excellent power point program describing just how HF propagation works available on the Internet at <http://www.ae4rv.com/tn/propflash.htm>. If you're at all interested to see how signals get from here to there, take a look.

(TNX to Jack Gaddas-KY4Z for this input.)

People who think they know everything are a great annoyance to those of us who do. – Isaac Asimov

CONTESTS & ACTIVITIES

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
PSK Rumble	0000Z 04 Oct 2400Z 04 Oct	160 – 6 Meters PSK Only	Anyone, Anywhere	Name, State or Province
Oceania DX Contest	0800Z 04 Oct 0800Z 05 Oct	160 – 10 Meters Phone Only	Stations in Oceania	R/S, Serial Number
RSGB 21/28 MHz Contest	0700Z 05 Oct 1900Z 05 Oct	15 – 10 Meters Phone and CW	UK Stations Only (who knows, 15 might open up)	Serial Number
Oceania DX Contest	0800Z 11 Oct 0800Z 12 Oct	160 – 10 Meters CW Only	Stations in Oceania	R/S/T, Serial Number
Worked All Britain HF Contest	1200Z 11 Oct 1200Z 12 Oct	20 – 10 Meters Phone Only	British Stations Only	R/S, Serial Number
JARTS WW RTTY Contest	0000Z 18 Oct 2400Z 19 Oct	80 – 10 Meters RTTY Only	Anyone, Anywhere	R/S/T, Age of Operator
Worked All Germany Contest	1500Z 18 Oct 1459Z 19 Oct	80 – 10 Meters Phone and CW	German Stations Only	R/S/(T), Serial Number
W/VE Islands QSO Party	1600Z 18 Oct 2359Z 19 Oct	160 – 6 Meters SSB, CW, Digi	Stations on US and Canadian Islands	R/S/(T)
CQWW DX Contest	0000Z 25 Oct 2359Z 26 Oct	80 – 10 Meters Phone Only	DXCC Entities (USA stations for zone credit only)	R/S, CQ Zone (Zone 5 locally)

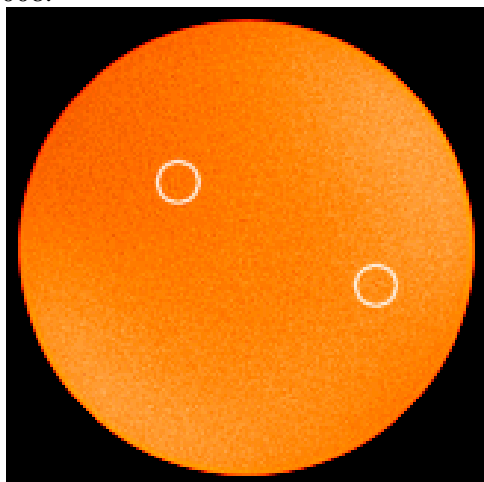
From "Contest Corral" on the ARRL Web Site

-- CAR 54, WHERE ARE YOU? --

Well, more to the point than an old humorous TV series, "Sunspot Cycle 24, where are you?"

"(I)t seems the smoothed sunspot numbers (SSN) will range between 10.9 and 12.0 until September 2007 when they will finally begin to climb. The possible bright side of this is that the SSN will probably not go down to zero..."

That excerpt is from "Cycle 24 Starts When?" in the March 2007 issue of *The Communicator*. Based on historical trends, that's what should have happened. However, rather than reach a minimum in September 2007, the SSN continued in decline to 3.5 in February 2008 (the last month for the SSN). Until the latter days of September 2008 the International Sunspot Number has been essentially at ZERO since July 2008.



As noted under "September Solar Activity" on page 3, small sunspots emerged 10-12 and 23-24 September. On 29 September, two groups (centered within the circles shown) emerged. S732 has two spots and S733 has one spot, giving a sunspot number of 23 for the day. Both soon faded but were considered to be Cycle 24 spots.

In 2005, a pair of astronomers from the National Solar Observatory (NSO) in Tucson attempted to publish a paper in the journal *Science*. They looked at minute spectroscopic and magnetic changes in the sun. By extrapolating forward, they reached the startling result that, within 10 years, sunspots would vanish entirely. The sun was very active then, and most of their peers laughed at what they considered an unsubstantiated conclusion. *Science* ultimately rejected the paper as being too controversial.

While the latest prediction is that Cycle 24 will truly get under way in mid-2009, what if this lull continues? While not a daily occurrence, the 20-meter band has been opening for long-haul DX into east, central and west Asia. The 17-meter band has also been open on a daily basis. The higher frequencies have been quiet, but even those bands open, as if by magic, when a DXpedition such as VP6DX was on from Ducie Island. So it's not like we should scrap our radios and take up another form of entertainment.

In the past 1000 years, three previous occurrences of extended periods without sunspots--the Dalton, Maunder, and Spörer Minimums--have all led to rapid cooling of the Earth. One was large enough to

See **Cycle 24** on pg. 5

Cycle 24 from pg. 4

be called a "mini ice age".

Meteorologist Anthony Watts, who runs a climate data auditing site, claims the sunspot numbers are another indication the "sun's dynamo" is idling. According to Watts, the reduction in the solar magnetosphere affects cloud formation here on Earth, which in turn affects Earth's climate.

This theory was originally proposed by physicist Henrik Svensmark, who claims to have proven that galactic cosmic rays--which the sun's magnetic field partially shields the Earth from--increase the formation of molecular clusters that promote cloud growth. This relationship is a larger factor in climate change than greenhouse gases. (*Rather in contrast to government claims!*)

(From "Sun Makes History: First Spotless Month in a Century," Michael Asher, *DailyTech.com*, 01 September 2008 and <http://spaceweather.com>)

-- GOODBYE, JULES VERNE --

In April 2008, the 44-ton Jules Verne robotic cargo carrier was launched by the European Space Agency to deliver more than two tons of supplies to the International Space Station. This freighter performed the first-ever automated docking to the ISS without any assistance from human controllers. The Jules Verne became a valuable part of the ISS, using its engines to reboost the ISS orbit, helping the ISS dodge piece of space junk, and it became an impromptu bedroom (*hmmm?*) for the crew.



Eventually, the freighter was filled with trash from the ISS and, on 29 September, it was deliberately guided into the atmosphere by the ESA controllers. Shown above is the "fireworks" display as Jules Verne burned up in Earth's atmosphere.

(From <http://spaceweather.com>)

The legal code can never be identified with the code of morals. It is no more the function of government to impose a moral code than to impose a religious code. And for the same reason. – Robert M. Maciver, "The Web of Government," 1947

-- CONTEMPLATION --



What could be more contemplative than sitting on a bed of lava rock at 13,500' elevation and gazing out into the surrounding clouds and the valley far below? Few, if any, of us will ever share such an experience.

A number of our members met David-W4HAG and Marcella Haag at our 13 April 2006 TARC meeting. David and Marcella created *Airwave Missions* as a means to bring UHF radio communication to remote villages in Indonesia's most eastern province: Papua Barat (East Papua) on New Guinea Island. Their first project in 2005 was successful (see *The Communicator* for September 2006), and they returned again, with the intention of spending some years in Indonesia. They spent months, studying and becoming quite fluent in *Bahasa Indonesia* at the language school at Salatiga, Central Java.

David and Marcella returned to the States in 2008 and purchased sizeable quantities of equipment and material for their needs in the coming months. In the photo, David is installing an MFJ Simplex Repeater, UHF radio, battery and solar panel atop this mountain ridge. The installation is bolted into the lava rock to insure that it will not be affected by windstorms. As the only access to the site was via helicopter, it should be safe from potential vandalism.

The guiding philosophy of these two young people is that giving of one's time is the most valuable thing a person can offer. And, they put this philosophy into action for the benefit of our fellow man. Our President, Stew Haag-W4MO can sure take pride in David and Marcella!

-- TARC NET SCHEDULE --

As shown on the Calendar, we have three weekly nets. Tuesday at 7:30 PM is the 145.610 MHz Experimental Net; Wednesday at 8:00 PM is the DX Net on our 146.805 MHz W4AC Repeater; and Thursday at 7:30 PM is the Emergency Net on our W4AC repeater. Members and friends are more than welcome to check into any or all of these nets.

Minutes from pg. 2

HF station and VHF/UHF equipment for a club station.

Jon-W4ZW had suggested we set up and operate a HF station at the 11 October Pine View Fair, for students and parents to see ham radio in action. Martha stated that space may be limited, but she would follow up on this. Jon's previous demonstration of ham radio at Pine View resulted in a great show of interest by the students.

While the vast majority of those students live in deed restricted communities, we can promote the use of the computer controlled radio as a viable alternative to a base station and antennas.

When Stew asked for support in helping prepare students for license exams, there was positive response. Stew has training material that has been used to prepare astronauts for getting licenses.

Stew also noted that the members are willing to assist Jon with setting up a station at the upcoming fair.

- 2) Peter Pesa-N4RD has shown a willingness to ramrod TARC participating in the 2009 Field Day. That's a long way off, so we need to know what's available in the meanwhile We need to get more TARC members involved in activities—especially any activities that would provide media exposure. Members are requested to suggest viable activities.
- 3) Stew announced that we may lose use of our current repeater site. If this occurs, we should relocate to a site more central to our club's service area. As such, it seems the only reasonable site would be on the tower at the Venice Regional Medical Center. Guenther-KF4WFA stated that he's a volunteer at the hospital, and will inquire who would be the best person with whom to discuss our interest.

COMMENTS FROM THE FLOOR – Martha was advised that she could inform any Pine View students who are Scouts that we would be willing to work with them for their merit badges in electronics, etc.

Don-KI4VGE stated that he would like to see a program on Stealth Antennas. This led to discussions on deed restrictions, stealth antenna web sites, etc.

ADJOURNMENT – A motion to adjourn at 8:15 PM was made by Konrad-WA3RRS, seconded by Bob-N1RA, and passed. There were 12 members present.

PROGRAM – The “program” consisted of the enlightening discussions and our hope for the future.

Jack Sproat-W4JS
Secretary

-- NEED AN “ELMER”? –

If you're studying for an upgrade, and feel the need for “comfort and assistance,” contact any of the following TARC members:

General Class

Jack Gaddas-WA1HSU jgaddas@verizon.net

Mike Hickey-NY4P ai4sr@hotmail.com

Konrad Owens-WA3RRS

kdowens39@hotmail.com

Jack Sproat-W4JS w4js@juno.com

Extra Class

Jack Gaddas-WA1HSU jgaddas@verizon.net

Stew Haag-W4MO w4mo@win.net

Bob Avrutik-N1RA n1ra@juno.com

-- REGIONAL HAMFESTS --

11-12 Oct Platinum Coast ARS Hamfest, Melbourne City Auditorium, 625 E. Hibiscus Blvd., Melbourne. TI: 146.850, Info: Jan-K4QD, 321.956.2482

25 Oct Dade Radio Club Hamfest, Mahi Shrine Temple, 1480 NW North River Dr., Miami. TI: 146.925 (PL 103.5 Hz) Info:Robert-KE4MCL, 305-513-8255

(From October 2008 *QST* and *WorldRadio*)

-- MYSTERY STATION OF THE MONTH --



Some of our “Old Timers” should be able to recognize the transmitter and receiver at this station.

October 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 QCWA Lunch, 11:30 AM @ Panda Pavilion TARC DX Net, 8 PM, W4AC Repeater 146.805	2 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	3 Breakfast @ Peach's, ± 7:45 AM	4
5	6	7 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 145.610	8 TARC DX Net, 8 PM, W4AC Repeater 146.805	9 TARC Meet- ing, Tech Session @ 6:30 PM, Meeting @ 7 PM	10 Breakfast @ Peach's, ± 7:45 AM	11 TARC VE Session @ 9:00 AM, Venice Public Library
12	13 DARN Emer- gency Net @ 11 AM & 7:30 PM, Starts on W4AC re- peater 146.805	14 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 145.610	15 TARC DX Net, 8 PM, W4AC Repeater 146.805	16 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	17 Breakfast @ Peach's, ± 7:45 AM	18
19	20	21 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 145.610	22 TARC DX Net, 8 PM, W4AC Repeater 146.805	23 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	24 Breakfast @ Peach's, ± 7:45 AM	25
26	27	38 Breakfast @ Peach's, ± 7:45 AM TARC Net @ 7:30 PM, 145.610	29 TARC DX Net, 8 PM, W4AC Repeater 146.805	30 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	31 Breakfast @ Peach's, ± 7:45 AM	

Personal Events

**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.

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President: Stew Haag-W4MO

V. President: Bruce Brown-WA8IQF

Secretary: Jack Sproat-W4JS

Treasurer: Don Jansen-KI4VGE

Directors: Konrad Owens-WA3RRS

Jon Hamlet - W4ZW

Charlie Covell - W4DB

Bob Avrutik-N1RA