



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>



-- JULY 2011 --

-- PRESIDENT'S MESSAGE --

As Stew's been over in Germany while this issue was being prepared, the following are random thoughts and comments from our editor.

The ARRL Field Day was last weekend, but it's unlikely that any local TARC members were out in the field participating in the event. Of course, following the traditional "custom," it did rain here that weekend.

Bob Marchese-K1NOK sent us a web site that offered both video and photos of how some 45 members the Potomac Valley RC and the Columbia ARA pooled their efforts to set up a 25-station Field Day operation. Take a look at <http://www.n3ain.com/W3AOFD2011.htm> and you should be impressed by their organizational skills, antenna farm, operating setups, food, etc.

We first fell in love with ham radio after visiting a Field Day site. We were befriended by several hams—several still in high school--got the ARRL study guides for CW and Novice license and, in about six weeks a former Navy radio operator gave us our Novice exam. The rest is history.

Like any hobby or personal interest, the joy you get from ham radio is directly proportional to what you put into it. If you got into ham radio because someone twisted your arm, you may not develop much enthusiasm for it. In contrast, if it was the result of your natural interest in what the hobby can offer, you will probably do your best to get on the air and be active. The choice is yours, however. Regardless, don't just stick that license into your wallet and be a ham in name only. You worked hard to get that license, so put it to use. Even if you just monitor our W4AC repeaters, DO SOMETHING!!

-- JULY MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **13 JULY 2011** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive, just west of the Venice Airport. Following the business meeting, Hans Napfel-WB2ZZB will present a program, "South Georgia DXpedition with Antarctica Exploration Events."

-- TWO IMPORTANT ANNOUNCEMENTS --

Do we have your attention? Well, please read:

1) SPECIAL ELECTION – Due to Vice President Bruce Brown-WA8IQF departing the area, **Andy Durette-KB1HIP** has offered to serve in that position. Therefore, in conformance with our Bylaws, a Special Election for Vice President will be held at our 13 July meeting.

2) PERMANENT MEETING CHANGE – Due to the efforts of Guenther Hennig-AJ4QX, the Commandant of the Coast Guard Auxiliary has agreed that our meeting night shall be the second Wednesday of each month. Guenther's efforts are most appreciated by all, and especially those members who had conflicts with the former dates.

-- PRIDE AND JOY AT KY1Z --



Jack Gaddas-KY1Z was so happy with the performance of his home brew 2-element cubical quad that he decided to go for a new 3-element quad. His design is for 17/15/12 meters as he hopes to take advantage of better propagation on the higher frequencies. Now, if Cycle 24 will just cooperate with some sunspots!!

The democracy will cease to exist when you take away from those who are willing to work and give to those who would not. - Thomas Jefferson

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TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
01 June 2011

President Stew Haag-W4MO called the meeting to order at 7:10 PM and, following a flag salute, introductions were made all around. Steve Case-W4VFL, Rob Lash-W4LRL and Tom Barrett-KI6PLK, all of Venice, were welcomed as visitors.

MINUTES – A motion to accept the minutes of the 04 May 2011 meeting as published in the June 2011 issue of *The Communicator* was made by Guenther Hennig-AJ4QX, seconded by Dil Kay-W8DIL, and passed.

CORRESPONDENCE – No correspondence received or sent during the past month.

TREASURER'S REPORT – Treasurer Don Jansen-KI4VGE gave the May Treasurer's Report. The starting balance was \$3145.96. Receipts were \$13.00 from the May 50/50, and \$10 for one name tag, totaling \$23.00. Expenses were \$14.96 for DayStar Internet service, \$7.49 for Memorial Plaque engraving, \$9.50 for one name tag, and \$5.00 for the Attendance Drawing, totaling \$36.95. The ending balance is \$3132.01. Fred Lathwood-KJ4TNI moved for acceptance of the report, seconded by Bruce Brown-WA8IQF, and passed.

COMMITTEE REPORTS

SUNSHINE – Nothing reported.

VE TESTING – Our next regularly scheduled VE session is scheduled for 10 AM on 11 June at the Venice Public Library. Candidates are expected from those who attended Andy Durette's Amateur Extra training sessions. A special VE session was held 31 May at the Venice High School, at which time two students passed their Technician exams and Jim Murdock-KG4KOT upgraded to Amateur Extra. Jim received a round of applause.

REPEATER/TECHNICAL – The 146 and 444 MHz repeaters are operational in both analog and digital modes. The Kenwood HF transceiver is operational if the operator is using the remote control head and interface box. In an effort to better utilize our 444.100 MHz W4AC Repeater, Stew distributed five HTs programmed for use on that repeater.

CLUB PROPERTY – Stew commented that the inventory of club property has not changed.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY reported that we have a total of 66 members, comprised of 54 dues paying members, eight Life Members and four First Year Free members.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG was not present but it was commented that we suffer continued poor turn out for the nets.

LIAISON TO EARS – Conrad Owens-WA3RRS wasn't present. It was agreed that we drop this item from the agenda as Conrad is our only dual-member and his attendance is no longer convenient due to his relocation to northern Sarasota.

LIAISON TO QCWA – Some 15 members of Suncoast Chapter 53 enjoyed lunch today at the Panda Pavilion. All are welcome to come on out, have lunch and enjoy our camaraderie the first Wednesday at 11:15, or so, through September.

OLD BUSINESS – Vice President Bruce Brown-WA8IQF will be moving from this area in early July, therefore we need someone to fill this position. Stew asked if anyone was willing to serve, but there was no response from the members present.

NEW BUSINESS – Stew announced that our July and August meetings will be held the second Wednesday of those months. It is recognized that our Sarasota members have a conflict with our current schedule. Guenther Hennig-AJ4QX reported that the Coast Guard training class being held the second Wednesday ends this month and, when it is scheduled to resume in September, we can have the second Wednesday and it will be held the first Wednesday.

COMMENTS FROM THE FLOOR – None

ADJOURNMENT – A motion to adjourn at 7:30 PM was made by Jack Gaddas-KY1Z, seconded by Bruce Brown-WA8IQF, and passed. There were 18 members and three visitors present.

PROGRAM – Jack-W4JS utilized visual aids to discuss "Sunspots—Cause and Effects."

Jack Sproat-W4JS
Secretary



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 (UTC)							
			80	40	30	20	17	15	12	10
Midway Is – KH4/W5FJG	Now Active	297	--	05-12	04-13	11-07	18-05	14-05	20-04	NO
Afghanistan – T6MO, T6EOD; **	Now Active	26	--	0100	--	00-04	21-04	NO	NO	NO
Vanuatu – YJ8A; ++	Now to 17 July	262	06-12	04-13	04-13	00-13	22-05	21-05	21-05	NO
Saba Island – PJ6D; Mostly 6 meters + HF	Now to 05 July	114	22-12	00-24	00-24	00-24	17-04	16-03	15-04	01-03
Rotuma Is – 3D2R	01 to 15 July	263	05-12	04-14	04-13	00-14	19-06	23-05	19-05	00-04
Malawi – 7Q7MH	01 to 25 July	90	00-05	23-05	23-06	18-00	16-00	12-18	15-17	NO
Fernando de Noronha – PY0FO; **, 6 meters	02 to 09 July	115	--	--	--	10-06	14-04	16-03	16-03	23-02
French Polynesia – FO/F6CTL; ++ & digital	03 to 10 July	243	03-11	01-12	02-12	17-11	17-06	22-04	23-03	23-03
Jan Mayen Is – JX5O; team op, mostly 20/15	06 to 16 July	21	02-06	00-09	23-08	10-03	08-04	NO	NO	NO
Fiji – 3D2ML	06 to 17 July	258	05-12	04-13	04-13	00-13	19-06	22-04	00-04	20-04
Isle of Man – MD/home calls by German ops	07 to 15 July	41	00-06	22-09	22-09	10-01	11-00	13-01	NO	NO
Austral Is – FO/F6CTL; ++ & digital	11 to 14 July	239	03-12	01-13	01-12	16-10	17-05	17-05	19-04	19-04
Mozambique – C92DG	14 to 28 July	101	00-05	23-06	23-06	18-10	11-16	08-11	NO	NO
Palau Is – T88MB, T88MP, T88SR	20 to 24 July	307	09-11	08-13	08-12	05-17	22-04	22-05	03-04	NO
St Pierre & Miquelon – FP/K9OT	21 July – 04 Aug	39	23-11	00-24	00-24	15-02	NO	NO	NO	NO
Lord Howe Is – VK9HR; team operation	23 July – 02 Aug	249	06-12	04-13	04-12	00-07	22-05	22-04	22-03	22-04
Ascension Is – ZD8D; by German team	24 July – 09 Aug	108	23-08	21-10	21-10	11-02	14-00	17-23	17-00	NO
Micronesia – V63FAA; mainly 40/20	26 July – 04 Aug	293	08-11	07-13	06-13	02-06	21-03	21-05	21-04	NO
Easter Island – CE0Y/I2DMI; mostly RTTY	30 July – 08 Aug	208	01-12	23-12	23-10	14-09	15-05	18-03	17-01	17-01
Amer. Samoa – KH8/WA8LOW; team op	30 July – 14 Aug	256	05-12	03-13	03-14	18-13	18-05	18-04	19-05	23-01

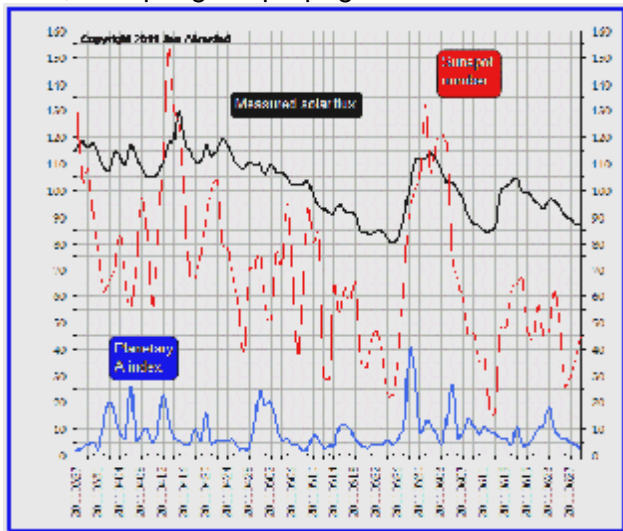
Updated 29 June 2011, based on 29 June 2011 QRZ DX, 27 June 2011 *The Weekly DX* and <http://www.ng3k.com>

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.

-- JUNE SOLAR ACTIVITY --

During June the Solar Flux ranged from 85 to 114, with a mean value of 95.8 (vs. 72.6 for June 2010 and 68.6 for June 2009). The A-index was ≥ 7 on 19 days. Through 29 June, the sunspot number ranged from 16 to 122, with a mean of 56.3—a 35% decline from April's mean.

Sunspot Regions 1229 thru 1243 were active during June, with 32 C-class and two M-Class flares occurring. Geomagnetic field disturbances due to coronal hole high speed streams drove the Planetary K Index as high as 94 on 05 June, disrupting HF propagation.



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

-- JULY FORECAST --

Solar activity is forecast to be very low to low during July.

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 July. High levels are expected 06-07 and 20-23 July. The Solar Flux should average 94.3 during July.

The geomagnetic field should be quiet to active 01-03 July with quiet levels 03-07 July. Quiet to unsettled levels are expected 08-09 July followed by quiet levels 10-16 July. Recurrent coronal hole high-speed streams are expected to bring quiet to unsettled levels 17-18, with a chance of minor storm periods 19-21 July. Quiet to unsettled levels on 22 July will be followed by quiet levels through the remainder of July.

(From NOAA Weekly Highlights and Forecasts, 28 June 2011, NOAA 27-day Space Weather Outlook Table, 28 June 2011, and 45 Day AP Forecast, USAF, 28 June 2011)

-- DX TIP --

Note above that Jan Mayen Island will be activated by a team operation for 10 days. This entity has no resident operators, and is only on the air every five years or more. Get it while you can, for who knows when it may appear again.

MAJOR CONTESTS DURING JULY

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
Canada Day Contest	0000Z 01 July 2359Z 01 July	160 – VHF/UHF Phone and CW	Canadian Stations	RS(T) and Serial
Venezuelan Independence Day Contest	0000Z 02 July 2400Z 03 July	160 – 10 Meters Phone and CW	Anyone, Anywhere	RS(T) and Serial
German DX RTTY Contest	1100Z 02 July 1059Z 03 July	80 – 10 Meters RTTY Only	Anyone, Anywhere	RST and Serial
Ten-Ten Spirit of 76 QSO Party	0000Z 04 July 2400Z 10 July	10 Meters Only SSB, CW & Digital	Members of 10-10 International	Call, Name, State
IARU HF World Championships	1200Z 09 July 1200Z 10 July	160 – 10 Meters Phone and CW	Anyone, Anywhere	RS(T) and ITU Zone (8 locally)
CQ World Wide VHF Contest	1800Z 16 July 2100Z 17 July	6 and 2 Meters SSB, CW & Digital	Anyone, Anywhere	4-digit Grid Square
North American QSO Party RTTY	1800Z 16 July 0600Z 17 July	80 – 10 Meters RTTY Only	Anyone, Anywhere	Name and State
RSGB IOTA Contest	1200Z 30 July 1200Z 31 July	80 – 10 Meters Phone and CW	Stations operating for Islands	RS(T) and Serial

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/>

-- PUT THOSE HT'S TO USE --

The 01 June meeting Minutes report that Stew-W4MO loaned out five HTs programmed for our 444.100 MHz W4AC Repeater. To date, it appears that none of those HTs are being utilized. While none of our TARC nets operate on this repeater, NI4CE has VHF/UHF net activity.

The West Central Florida Group, Inc operates linked repeaters on 145.29 MHz, 145.43 MHz and 442.95 MHz, all with 100 Hz tone requirement. As the antennas for these repeaters are up some 1000' AGL, they get out and hear very well—especially on 440. Consider the following:

WCF Information Net: Held every Sunday at 7:30 PM, this net is intended to provide general information to the hams in the West Central Florida Section.

AMSAT-Florida Net: This net meets at 7:30 PM on Thursday, links with other repeaters across the State, and provides information on the current status of the various amateur radio satellites.

WCF Technical Net: The Tech Net meets at 9:00 PM on Thursday, providing a forum for local hams to meet, ask questions about the ham radio technology, equipment problems, computers and software, operating procedures, etc.

WCF Eagle Net (NTS Traffic Net): This net meets every evening at 8:30 PM to pass formal written message traffic both within the Section and to and from other areas of North America. If you have no knowledge of the NTS procedures, just monitoring this net could prove educational.

QCWA Net: Meeting at 9:00 AM on Saturday mornings, this net is for both Quarter Century Wireless Association members and any operators interested in the QCWA.

WCF Digital Training Net: This net meets at 7:30 PM Wednesdays and offers assistance with the digital modes.

Tampa Bay Traders Net: Meeting every Wednesday at 9:00 PM, this net offers an opportunity to buy/sell/swap items with fellow hams.

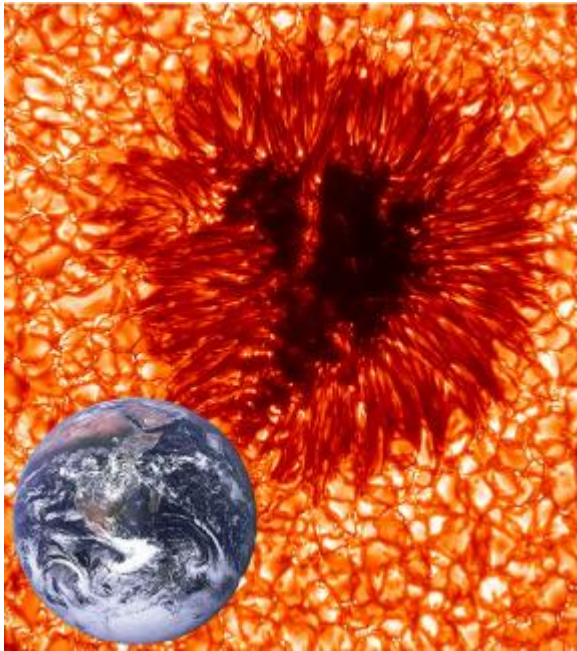
(From <http://www.ni4ce.org/nets/>)

-- FAITHFULLY ON GUARD, 24/7 --



Ollie Owl has been doing a rather good job at keeping itinerant birds from perching on the antennas at W4JS. One crow shows little fear of Ollie, however, and usually pays a short visit most days—perhaps for a free ride on the antenna "merry-go-round."

-- UPDATE ON SUNSPOT CYCLE 24 --



(Photo taken in May 2010 by Royal Swedish Academy of Sciences. Earth image shown to indicate relative size of typical sunspot.)

The results of three separate studies seem to show that even as the current sunspot Cycle 24 is under way, the sun could be heading into a more-dormant period, with activity during the next 11-year sunspot cycle greatly reduced or even eliminated. The results of the new studies were announced 14 June at the annual meeting of the solar physics division of the American Astronomical Society, held at New Mexico State University in Las Cruces. "The solar cycle may be going into a hiatus," Frank Hill, associate director of the National Solar Observatory's Solar Synoptic Network, said in a news briefing.

The studies looked at a missing jet stream in the solar interior (also known as the "conveyor belts"), fading sunspots on the sun's visible surface, and changes in the corona and near the poles. "This is highly unusual and unexpected," Hill said. "But the fact that three completely different views of the sun point in the same direction is a powerful indicator that the sunspot cycle may be going into hibernation."

Astronomers study mysterious sunspots because their number and frequency act as indicators of the sun's activity, which ebbs and flows in an 11-year cycle. Typically, a cycle takes roughly 5.5 years to move from a solar minimum, when there are few sunspots, to the solar maximum, during which sunspot activity is amplified. (The current Cycle 24 began in December 2008 and is predicted to peak in mid-

2013.) However, the recent findings indicate that the activity in Cycle 25, could be greatly reduced (even below the mediocre activity of Cycle 24). In fact, some scientists are questioning whether this drop in activity could lead to a second Maunder Minimum--the 70-year period from 1645 to 1715 when the sun showed virtually no sunspots.

Since powerful charged particles from solar storms can occasionally wreak havoc on Earth's magnetic field by knocking out power grids or disrupting satellites in orbit, a calmer solar cycle could have its advantages. (Also, the Maunder Minimum coincided with the Little Ice Age, during which Europe and North America were subjected to bitterly cold winters.)

Hill is the lead author of one of the studies that used data from the Global Oscillation Network Group to look at characteristics of the solar interior. (The group includes six observing stations around the world.) The astronomers examined an east-west zonal wind flow inside the sun, called torsional oscillation. The latitude of this jet stream matches the new sunspot formation in each cycle, and models successfully predicted the late onset of the current Cycle 24. "We expected to see the start of the zonal flow for Cycle 25 by now, but we see no sign of it," Hill said. "The flow for Cycle 25 should have appeared in 2008 or 2009. This leads us to believe that the next cycle will be very much delayed, with a minimum longer than the one we just went through." Hill estimated that the start of Cycle 25 could be delayed to 2021 or 2022 and will be very weak, if it even happens at all.

In the second study, researchers tracked a long-term weakening trend in the strength of sunspots, and predict that by the next solar cycle, magnetic fields erupting on the sun will be so weak that few, if any, sunspots will be formed. With more than 13 years of sunspot data collected at the McMath-Pierce Telescope at Kitt Peak in Arizona, Matt Penn and William Livingston observed that the average magnetic field strength declined significantly during Cycle 23 and now into Cycle 24. Consequently, sunspot temperatures have risen, they observed. (Sunspot temperatures are typically lower than the surrounding surface of the Sun.) If the trend continues, the sun's magnetic field strength will drop below a certain threshold and sunspots will largely disappear; the field no
See **Cycle 24**, page 6

Cycle 24, from page 5

longer will be strong enough to overcome such convective forces on the solar surface.

In the third study, Richard Altrock, manager of the USAF coronal research program at the National Solar Observatory facility near Sunspot, New Mexico, examined the sun's corona and observed a slowdown of the magnetic activity's usual "rush to the poles." "A key thing to understand is that those wonderful, delicate coronal features are actually powerful, robust magnetic structures rooted in the interior of the sun," Altrock said. "Changes we see in the corona reflect changes deep inside the sun."

Sunspots in a new cycle typically emerge at a latitude of about 70 degrees at the start of the solar cycle, then move toward the equator. The new magnetic field simultaneously pushes remnants of the past cycle as far as 85 degrees toward the poles. The Cycle 24, however, is showing some different behavior. "Cycle 24 started out late and slow and may not be strong enough to create a rush to the poles, indicating we'll see a very weak solar maximum in 2013, if at all," Altrock said. "If the rush to the poles fails to complete, this creates a tremendous dilemma for the theorists, as it would mean that Cycle 23's magnetic field will not completely disappear from the polar regions. No one knows what the sun will do in that case."

If the models prove accurate and the trends continue, the implications could be far-reaching. "If we are right, this could be the last solar maximum we'll see for a few decades," Hill said. "That would affect everything from space exploration to Earth's climate."

(From "Sun's Fading Spots Signal Big Drop in Solar Activity," Denise Chow, SPACE.com Staff Writer, 14 June 2011. *Italicized comments added by Editor.*)

-- ANALYZING DX LOVERS --

The Old Timer was by last week and one of the Legion of Hand-Wringers cornered him. "Tell me," this one said to the Old Timer, "what possible pleasure is there in working DX? Why, I listened to some DXers a couple of weeks back and it was absolute bedlam. Absolutely!" The Wringer paused in anticipation of a comment and, when none came, proceeded onwards on the paths of righteousness. "Why, it seemed that there was hardly a gentleman in the whole group and, if there was one, he certainly was submerged. Tell me. Tell me why supposedly mature and rational people would engage in

such tumultuous battles just to work a new country. There must be a reason that you can explain to me. Just why do they do it?"

The Old Man was silent for a bit and when the Wringer showed signs of starting again, he raised his hand to forestall further questioning. "Maybe they enjoy it," he said and that was it.

For there will always be questions when one applies their own standards of behavior to others and one of the eternal truths is that only a true-blue DXer can understand another DXer. For there is joy in battle and pride in the scars of battles past. But, best of all, is to get through that pileup and work that station. NASCAR all the way! You betcha!

(From "DX IS!, The Best of the West Coast DX Bulletin," edited and published by C. T. Allen-W5DV and J. M. Allen-W6OGC, 1981)

-- WHEN QST PAGES HAD HUMOR --

Philip "Gil" Gildersleeve-W1CJD (SK – 1966) conjured up over 1500 cartoons for QST during a 40-year span from 1930 to the mid-'60s. In 1986, the ARRL published a collection of his classics. The friendly companion and servant, Jeeves, was often involved in the activities—for better or worse--of his mysterious employer. While the equipment may now be different, Gil's conceptions of ham radio are timeless.



Gil – October 1964

We will include some of Gil's most appropriate cartoons on sunspots, antennas, operating, etc. in future issues of *The Communicator*.

July 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
					Breakfast @ Peach's, ± 7:30 AM	
3	4	5	6	7	8	9
		Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	QCWA Lunch, 11:15 AM @ Panda Pavilion TARC DX Net, 8 PM, W4AC Repeater 146.805	TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	Breakfast @ Peach's, ± 7:30 AM	TARC VE Session @ 10:00 AM, Venice Public Library
10	11	12	13	14	15	16
	DARN Emer- gency Net @ 11 AM Starts on NI4CE Re- peater 145.43	Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	TARC Meet- ing 7:00 PM @ Coast Guard Auxiliary Facility	TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	Breakfast @ Peach's, ± 7:30 AM	
17	18	19	20	21	22	23
		Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	TARC DX Net, 8 PM, W4AC Repeater 146.805	TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	Breakfast @ Peach's, ± 7:30 AM	
24	25	26	27	28	29	30
		Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	TARC DX Net, 8 PM, W4AC Repeater 146.805	TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	Breakfast @ Peach's, ± 7:30 AM	
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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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