



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



-- JUNE 2015 --

-- PRESIDENT'S MESSAGE --

You would be amazed by the various comments, opinions and dreams shared at our bi-weekly morning get-togethers at Peaches Restaurant. They all start about 6:00 a.m. and continue until about 8:00 a.m. The usual first in group is well known by the staff and the proper beverages are served quickly.

I won't elaborate, but just give a recent sample of the items recently discussed. I started with DX stories and questioned if it is really proper to rent remote stations around the globe to attain awards? It brought out a varied series of comments both pro and con. From there the comments shifted to amplifiers and if one individual should really sell his Alpha amp because he now owns a Prometheus (both capable of 2000+ watts output). This produced a comment that it must indicate 100 watts would be considered QRP to these operators and that brought out several ha-ha's. The talk ranged from Ham Radio to exotic food preparation, to the demise of Radio Shack.

I must add that the Sharks Tooth Festival donations received with some QSL requests and supported by additional contributions from some of our members allowed us to give \$100 in support of the Special Athlete Boosters, Inc.

See you at breakfast or on one of our nets.
VY 73 de Fred-KJ4TNI

-- JUNE MEETING --

Our meeting will start at **7:00 PM** on Wednesday, **10 June 2015** at the Coast Guard Auxiliary Training Center, 1200 South Harbor Drive. Tom McDermitt-W3GXV will present a program which illustrates how the space-age material graphene affects semiconductors, wearable electronics, LED lighting, batteries, super capacitors, bionics, aircraft de-icing systems, etc. This is amazing stuff, so come out and learn something.

-- TARC'S DONATION TO SAB --



Nancy Raney, Program Supervisor at Special Athlete Boosters, accepts a check for \$100 from TARC President Fred Lathwood-KJ4TNI. Some of the hams who contacted our SE Station K4S from the Sharks Tooth Festival included donations with their QSL cards. At our May meeting, Club members added donations to make up the total. (Photo by San Yoder-K3SY, 19 May 2015)

**Tamiami Amateur Radio Club
Minutes of the Meeting
13 May 2015**

President Fred Lathwood-KJ4TNI called the meeting to order at 7:10 PM with a flag pledge. Introductions were then made all around with Gary Riedel-KJ4KHM, Paul Johnson-NA8PJ and Jim Stevens-KA9QGG being welcomed as visitors.

MINUTES – Fred requested a motion to accept the minutes of the 8 April 2015 meeting as published in the May 2015 issue of *The Communicator*. Hans Napel-WB2ZZB so moved, seconded by Peter Boers-KV4LR, and passed.

CORRESPONDENCE – None

TREASURER'S REPORT – Treasurer San Yoder-K3SY reported that the starting balance was \$5,091.07. Receipts were \$21 from the February 50/50, and \$25 for dues for a total of \$46. There were no expenses. We had a closing balance of \$5,137.07. Jim Shorthill-KJ4NDO moved for acceptance of the report, seconded by Gary Hagens-K6OC, and passed.

COMMITTEE REPORTS

SUNSHINE – Nothing.

VE TESTING – 9 candidates at the 9 May VE session. 4 passed Extra and 2 passed Technician.

REPEATER/TECHNICAL – Both the 146.805 and 444.100 machines are operating satisfactorily.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY reported that we have 51 regular members, 8 student members, 1 honorary member, and 4 life members for a total of 64 members.

NET OPERATIONS – Fred reminded all of our 440 and 2-meter nets.

LIAISON TO QCWA – There were 24 members and spouses at the 06 May lunch at Denny's on Bee Ridge Rd., Sarasota. San Yoder-K3SY gave a presentation on Story Musgrave.

OLD BUSINESS – \$11 was sent in for Special Olympics by QSL cards. With additional TARC club donations we presented them a check for \$100.

NEW BUSINESS – Fred asked about interest in Field Day and will follow up at Peaches on Friday morning.

COMMENTS FROM THE FLOOR – Bob Avrutik-N1RA asked about the need for a new lock for the Coast Guard facility. There was some discussion if one was actually needed. Guenther Hennig-AJ4QX will take the request back to the Coast Guard Auxiliary and provide an answer.

Glenn Hyde-N4MXQ wanted to know if TARC could use a trailer to transport ham equipment to events. Discussion followed that we had gotten a trailer at one time and never used it. Guenther Hennig-AJ4QX reported about the Coast Guards radio trailer. No decision made.

ADJOURNMENT – At 7:45 PM, a motion to adjourn was made by Gary Hagens-K6OC, seconded by Bob Avrutik-N1RA, and passed. There were 17 members and 3 visitors present.

PROGRAM – Hans Napfel-WB2ZZB did a presentation on the History of Flight Recorders.

Dave Gill-K4JDG

Secretary

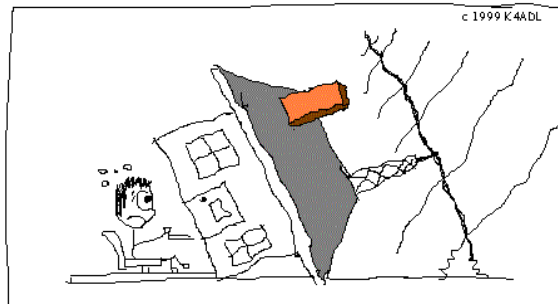
-- NEW GEAR UNVEILED AT DAYTON --

New products touted at the 2015 Hamvention included the K3S transceiver from Elecraft-- an upgrade of its very popular K3. Expected to ship by mid-June, the K3S is the "second-generation, software defined superhet transceiver," the manufacturer said on its website. "We've upgraded nearly every subsystem, improving performance and adding many new features," Elecraft said. New features include a quieter synthesizer, "unequaled" strong-signal performance, and "exceptional" transmitter purity. There's also a second preamp, a new LCD bezel, and a "soft-touch VFO A knob with improved grip." *(These internal improvements to an already first class radio have caught the attention of serious contesters and DXpedition operators. Look for a number of K3's to be on the market as happy owners move further up to the K3S.)*

FlexRadio debuted the Maestro control console for its FLEX-6000 series of transceivers. Expected to become available later this year, the Maestro is "an intuitive, plug-and-play control console" that lets the user operate any FLEX-6000 transceiver without a PC. FlexRadio said the unit combines a high-definition 8-inch touch display and is "ergonomically designed."

(From The ARRL Letter, 21 May 2015)

The K4ADL KartoonKorner



DONALD HAD BEEN WARNED TO CENTER THE 40 METER BEAM ON HIS ROOF.

MAJOR CURRENT/UPCOMING 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
Nepal – 9N7CW; by ZL3CW	Now to 30 Aug	13	--	NO	NO	21-03	14-04	--	--	--
Burkina Faso – XT2AW; by DF2WO, holi stl	Now to 30 June	83	23-06	22-08	22-08	07-04	10-01	15-00	08-04	21-00
Rep. of Congo – TN/CT1FJZ; ++	Now to 19 June	88	23-08	22-07	22-07	17-11	13-01	15-01	07-02	20-01
Niger – 5U5U; by F4WBN	Now to 16 June	77	--	22-07	22-07	07-03	12-00	07-05	12-00	NO
Kenya – 5Z4/WA5A; ++, some CW, holi styl	Now to 11 June	76	--	20-00	--	18-21	--	19-21	--	--
Sable Is – CY0/VA1AXC; ++, spare time op	Now to 05 June	41	--	--	--	03-01	NO	NO	--	--
Tuvalu – T2RG; by VK2RG ++, JT65, WSPR	Now to 05 June	267	--	--	00-09	21-10	20-02	19-00	16-01	NO
Lord Howe Is – VK9/DL1YAF, holiday style	Now to 03 June	249	02-07	01-08	00-04	22-03	20-01	19-00	17-01	18-00
Svalbard Is – JW2US; by LA2US, spare time	01 June – 30 Nov	13	NO	21-01	21-02	18-21	16-01	NO	NO	NO
East Kiribati – T32AZ; by KH6QJ & friends	03 to 08 June	267	00-07	23-09	22-10	19-02	19-00	13-02	NO	NO
Maldives – 8Q7CQ; by G0VJG	05 to 18 June	41	NO	20-21	20-21	17-23	22-00	22-00	NO	NO
Cape Verde Is – D4C; by IZ4DPV & friends	15 to 22 June	89	19-04	17-06	15-08	09-22	09-22	NO	NO	NO
Liechtenstein – HB0/OO6P w/friends	21 to 26 June	46	00-05	22-07	22-08	10-08	13-00	07-02	16-00	NO
Niue – E6AB; by ZL2HM, ++	24 June – 04 July	252	04-12	03-14	03-14	17-13	17-07	18-05	22-05	00-04
Market Reef – OJ0V; by 3 ON ops.	28 June – 04 July	31	--	23-07	23-07	17-13	10-00	08-01	21-00	NO

Updated 28 May based on the 25 May 2015 *The Weekly DX*, the 27 May *QRZ DX* and, <http://www.ng3k.com>

Notes: Time in bold = the Bands with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly SSB; ** = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts calculated using *W6ELProp* propagation software. Solar Flux and K-index varied by date in accordance with the NOAA SWPC 27-day Space Weather Outlook Table and USAF 45 Day AP Forecast.

-- MAY SOLAR ACTIVITY --

Through 30 May the 10.7 cm Solar Flux ranged from 92 to 163, with a mean value of 121.1 (vs. 130.0 for May 2014 and 131.4 for May 2013), and the A_p index was ≥ 7 on 16 days. Through 29 May, the sunspot number ranged from 11 to 188, with a mean of 86.3.

May was a relatively quiet month, with one X-class, six M-class and 179 C-class flares through the 29th. Severe geomagnetic disturbances drove the A_p up to 56 on the 6th, 80 on the 8th, and 48-56 on 18 and 19 May.

-- JUNE FORECAST --

Solar activity is expected to be very low to low levels, with a chance of moderate levels 01 through 11 June and 28 through 30 June.

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 with high levels possible 01, 04-06, 10-12 and 16-20 June due to recurrent CH HSS effects.

Geomagnetic field activity is expected to be at unsettled to active levels 02-03, 07-11, 13-15, 24-26 and 29-30 June, with possible minor storm levels on 08-09 June due to recurrent CH HSS.

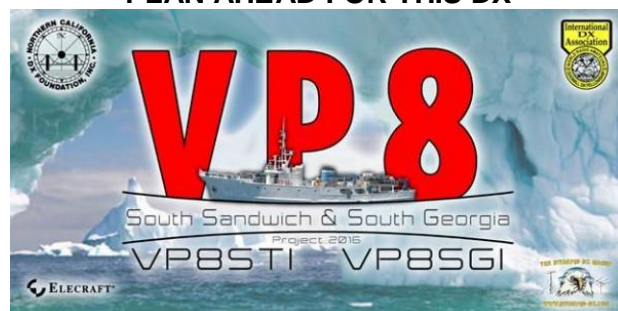
The 10.7 cm Solar Flux should range from 90 to 125 and average 107.2 during June.

(From *NOAA Weekly Highlights and Forecasts*, 25 May 2015, *NOAA 27-day Space Weather Outlook Table*, 25 May 2015, and *45 Day AP Forecast*, USAF, 25 May 2015.)

-- CONUS HF BAND CONDX --

If you have the interest and the equipment to work HF radio, you usually want to know how propagation may be on the various bands. Take a look at <http://www.bandconditions.com/> which will give you a reasonable idea of what to expect. Read over the Instructions page first to understand what the numbers mean.

-- PLAN AHEAD FOR THIS DX --



South Sandwich is currently the #3 most wanted DXCC entity, while South Georgia is the #8 most wanted entity. So there should be lots of action when these stations come on in January-February 2016. In addition, On-Line logging will be available from both islands so you can check you're logged in. But, costs are very high!

The 14 team members are paying \$210,000 of the \$425,000 total cost. To date, \$315,000 has been raised, including the team's contribution, with a deficit of \$110,000 remaining. If you want to support this DXpedition, <http://www.intrepid-dx.com/vp8/donors.php> will show you how to do it. (Your editor just added his *PayPal* support.)

“WORKING DX IS A CONTACT SPORT”

MAJOR CONTESTS DURING JUNE 2015

VK Shires Contest			SEANET Contest			UKSMG Summer Contest		
06 June 0600Z	07 June 0600Z		06 June 1200Z	07 June 0700Z		06 June 1300Z	07 June 1300Z	
3.5-28	--	CW, SSB	3.5-28	--	CW, SSB	--	50	CW, SSB
RS(T), CQ Zone			RS(T), Serial			RS(T), Serial, 6-char Grid Square		
http://vkshires.vk2bo.com			www.seanet2015.com			http://uksmg.org/summer-contest		
Asia-Pacific Sprint			Portugal Day Contest			ARRL June VHF Contest		
13 June 1100Z	13 June 1300Z		13 June 1200Z	14 June 1200Z		13 June 1800Z	15 June 0259Z	
14, 21	--	SSB	3.5-28	--	CW, SSB	--	50+	All Modes
RS, Serial			RS(T), Serial			4-char Grid Square		
http://jsfc.org/apsprint/aprule.txt			www.rep.pt/portugal_day_contest/			www.arrl.org/june-vhf		
All Asian DX Contest			SMIRK Contest			His Majesty, King of Spain Contest		
20 June 0000Z	21 June 2359Z		20 June 0000Z	21 June 2400Z		27 June 1200Z	28 June 1200Z	
1.8-28	--	CW	--	50	CW, SSB	1.8-28	--	SSB
RST, 2-digit Age of Operator			6-char Grid Square			RS, Serial		
www.jarl.org/English/4_Library/			www.smirk.org/contest.html			http://concursos.ure.es/en/		

Legend: Serial = 3-digit sequential number of contact starting with 001; S/P/C = State, Province, DXCC Entity
 From ARRL "Contest Corral" and WA7BNM Contest Calendar at <http://www.hornucopia.com/contestcal/>

NOTE: Only major contests are shown, i.e. state QSO parties, miscellaneous sprints, etc. are not shown. See http://www.arrl.org/files/file/Contest%20Corral/Contest_Corral_1506.pdf for the complete list of the 50 contests/sprints/QSO parties/etc. that will be held during June.

-- ARRL STAFF AND VOLUNTEERS AT DAYTON HAMVENTION --



-- FCC TO DROP VANITY CALL SIGN FEE --

The FCC is eliminating the regulatory fee to apply for an Amateur Radio vanity call sign. The change will not go into effect, however, until required congressional notice has been given. This will take at least 90 days. As the Commission explained in a *Notice of Proposed Rule-making, Report and Order, and Order* released on 21 May, it's a matter of simple economics.

"The Commission often receives multiple applications for the same vanity call sign, but only one applicant can be issued that call sign," the FCC explained. "In such cases, the Commission issues refunds for all the remaining applicants. In addition to staff and computer time to process payments and issue refunds, there is an addi-

tional expense to issue checks for the applicants who cannot be refunded electronically." The Commission said that after it provides the required congressional notification, Amateur Radio vanity program applicants "will no longer be financially burdened with such payments,."

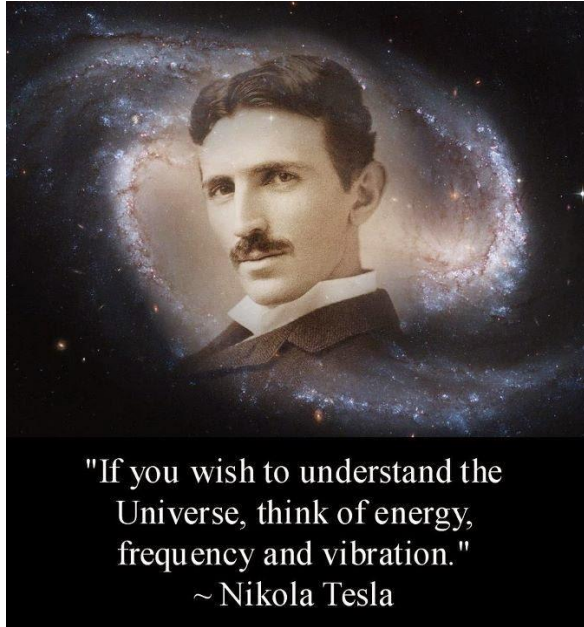
(From <http://www.arrl.org/news>, 22 May 2015)

-- RUSSIAN AND SPANISH SE OPS --

During the entire month of May, 11 Spanish teams operated "AO150" stations for the 150th anniversary of the ITU, and 12 Russian teams operated "R120" stations for the 120th anniversary of Aleksander Popov's radio receiver demonstration. The Spanish attracted 78,800 DXers and 33,500 DXers worked the Russians.

-- NIKOLA TESLA --

The following comes from "The Ten Inventions of Nikola Tesla That Changed the World," Nicholas West, <http://www.activistpost.com>, 10 July 2014



Nikola Tesla is finally beginning to attract real attention and encourage serious debate more than 70 years after his death. We know that he was undoubtedly persecuted by the energy power brokers of his day -- namely Thomas Edison, whom we are taught in school to revere as a genius. He was also attacked by J.P. Morgan and other "captains of industry." Upon Tesla's death on January 7th, 1943, the U.S. government moved into his lab and apartment confiscating all of his scientific research, some of which has been released by the FBI through the Freedom of Information Act. One testimony to Tesla's integrity shows when he tore up a contract with Westinghouse that was worth billions in order to save the company from paying him his huge royalty payments.

But, let's take a look at some of what Nikola Tesla--a man who died at 86 years, broke and alone--has actually given to the world. For better or worse, with credit or without, he changed the face of the planet in ways that perhaps no man ever has.

1. Alternating Current -- This is where it all began, and what ultimately caused such a stir at the 1893 World's Expo in Chicago. A war was leveled between the vision of Edison and the vision of Tesla for how electricity would be produced and distributed. The DC current that Edison (backed by General Electric) had been working on was costly over long distances, and

produced dangerous sparking from the required converter (called a commutator). Edison and his backers utilized the general "dangers" of electric current to instill fear in Tesla's alternative: Alternating Current. As proof, Edison sometimes electrocuted animals at demonstrations. Tesla responded by demonstrating that AC was perfectly safe by famously shooting current through his own body to produce light. This Edison-Tesla (GE-Westinghouse) feud in 1893 was the culmination of over a decade of shady business deals, stolen ideas, and patent suppression. Yet, despite it all, it is Tesla's system that provides power generation and distribution to North America in our modern era.

2. Light -- Of course he didn't invent light itself, but he did invent how light can be harnessed and distributed. Tesla developed and used fluorescent bulbs in his lab some 40 years before industry "invented" them. Tesla took glass tubes and bent them into famous scientists' names, in effect creating the first neon signs. But, it is his Tesla Coil (see Wikipedia, http://en.wikipedia.org/wiki/Tesla_Coil) that may be the most impressive, and controversial. The Tesla Coil is certainly something that big industry would have liked to suppress: the concept that the Earth itself is a magnet that can generate electricity (electromagnetism) utilizing frequencies as a transmitter. All that is needed on the other end is the receiver -- much like a radio.

3. X-rays -- Electromagnetic and ionizing radiation was heavily researched in the late 1800s, but Tesla researched the entire gamut. Everything from a precursor to Kirlian photography which has the ability to document life force, to what we now use in medical diagnostics, this was a transformative invention of which Tesla played a central role. X-rays, like so many of Tesla's contributions, stemmed from his belief that everything we need to understand the universe is virtually around us at all times.

4. Radio -- Guglielmo Marconi was initially credited, and many believe him to be the inventor of radio to this day. (The Germans, Russians, Indians and Murray, Kentucky will dispute that.) However, the Supreme Court overturned Marconi's patent in 1943, when it was proven that Tesla invented the radio years previous to Marconi. Radio signals are just another frequency that needs a transmitter and receiver, which Tesla also demonstrated in 1893 during a presentation before The National Electric Light

See **TESLA**, pg.6

TESLA, from pg.5

Association. In 1897 Tesla applied for two patents US 645576 and US 649621. In 1904, however, the U.S. Patent Office reversed its decision, awarding Marconi a patent for the invention of radio, possibly influenced by Marconi's financial backers, who included Thomas Edison and Andrew Carnegie. This also allowed the U.S. government (among others) to avoid having to pay the royalties that were being claimed by Tesla.

5. Remote Control -- This invention was a natural outcropping of radio. Patent No. 613809 was the first remote controlled model boat, demonstrated in 1898. Utilizing several large batteries; radio signals controlled switches, which then energized the boat's propeller, rudder, and running lights. While this exact technology was not widely used for some time, we now can see the power that was appropriated by the military in its pursuit of remote controlled war. Radio controlled tanks were introduced by the Germans in WWII, and developments in this realm have since slid quickly away from the direction of human freedom.

6. Electric Motor -- Tesla's invention of the AC induction motor has finally been popularized by a car brandishing his name. Tesla's invention of a motor with rotating magnetic fields could have freed mankind much sooner from the stranglehold of Big Oil. However, this invention has fundamentally changed the landscape of what we now take for granted: industrial fans, household appliances, water pumps, machine tools, power tools, disk drives, electric wrist-watches and compressors.

7. Robotics -- Tesla's overly enhanced scientific mind led him to the idea that all living beings are merely driven by external impulses. He stated: "I have by every thought and act of mine, demonstrated, and does so daily, to my absolute satisfaction that I am an automaton endowed with power of movement, which merely responds to external stimuli." Thus, the concept of the robot was born. However, an element of the human remained present, as Tesla asserted that these human replicas should have limitations -- namely growth and propagation. Nevertheless, Tesla unabashedly embraced all of what intelligence could produce. His visions for a future filled with intelligent cars, robotic human companions, and the use of sensors, and autonomous systems are being fulfilled on a daily basis.

8. Laser -- Tesla's invention of the laser may be one of the best examples of the good and evil bound up together within the mind of man. Lasers have transformed surgical applications in an undeniably beneficial way, and they have given rise to much of our current digital media. However, with this leap in innovation we have also crossed into the land of science fiction. From Reagan's "Star Wars" laser defense system to today's Orwellian "non-lethal" weapons arsenal, which includes laser rifles and directed energy "death rays," there is great potential for development in both directions.

9 and 10. Wireless Communications and Limitless Free Energy -- These two are inextricably linked, as they were the last straw for the power elite -- what good is energy if it can't be metered and controlled? Free? Never. J.P. Morgan backed Tesla with \$150,000 to build a tower that would use the natural frequencies of our universe to transmit data, including a wide range of information communicated through images, voice messages, and text. This represented the world's first wireless communications, but it also meant that aside from the cost of the tower itself, the universe was filled with free energy that could be utilized to form a world wide web connecting all people in all places, as well as allow people to harness the free energy around them. Essentially, the 0's and 1's of the universe are embedded in the fabric of existence for each of us to access as needed. Nikola Tesla was dedicated to empowering the individual to receive and transmit this data virtually free of charge. But we know the ending to that story.... until now?

Tesla had perhaps thousands of other ideas and inventions that remain unreleased. A look at his hundreds of patents shows a glimpse of the scope he intended to offer.

The K4ADL KArtoon Korner



DELIGHTED AT HOW WELL HE GETS OUT WITH A KILOWATT AND AN INDOOR DIPOLE, BOB GIVES LITTLE THOUGHT TO THE EFFECTS OF NEAR-FIELD RF.

-- BOB-K1NOK DOES DAYTON --



Bob Marchese-K1NOK was one of the four (as best we know) TARC members at the Dayton Hamvention. It looks like there was an abundance of door prizes.



This brings back post-WW II memories when lots of military surplus was sold by the pound.

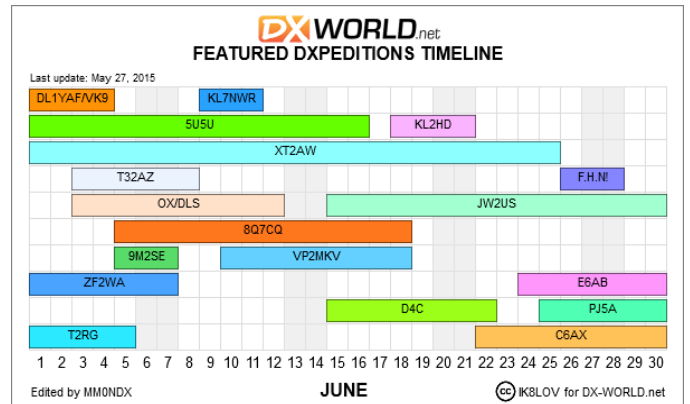


Now, that has got to be a very serious display!



Here's an overview of one segment of the commercial display area.

TNX, Bob, you almost make us feel like we were there.



June 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	3 QCWA, 11:15 @ Hibatchi Grill Buffet, Bird Bay Plaza, US 41 Bypass, Venice	4 TARC Net @ 7:30 PM, W4AC Repeater 146.805	5 Breakfast @ Peach's, ± 7:00 AM	6
7	8 DARN Emergency Net @ 11 AM Starts on NI4CE Rptr 145.430	9 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	10 TARC Meeting @ 7 PM, Coast Guard Training Center	11 TARC Net @ 7:30 PM, W4AC Repeater 146.805	12 Breakfast @ Peach's, ± 7:00 AM	13 TARC VE Session 10 AM Venice Public Library
14	15	16 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	17	18 TARC Net @ 7:30 PM, W4AC Repeater 146.805	19 Breakfast @ Peach's, ± 7:00 AM	20
21	22	23 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr	24	25 TARC Net @ 7:30 PM, W4AC Repeater 146.805	26 Breakfast @ Peach's, ± 7:00 AM	27
28	29	30 Breakfast @ Peach's, ± 7:00 AM 440 Net @ 7:30 PM, 444.100 Rptr			Breakfast @ Peach's, ± 7:00 AM	

NOTE: If the W4AC 146.805 Repeater or the 444.100 Repeater are inoperative, nets scheduled for activity will be held on 146.580 MHz simplex. 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 Letters of Interests: (N) Net Control__, (I) RFI/TVI__, (V) VE Testing__, (T) Training__, (P) Packet__, (Y) RTTY__, (D) PSK, etc.__, (O) Computers__, (X) DX__, (C) Contests__, (F) Field Day__, (Q) Publicity__, (E) Emergency Communications__, (S) Special Events__, (U) VHF/UHF__, (A) ATV/SSTV, (R) Repeater__, (L) 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

**TAMIAMI AMATEUR RADIO CLUB, INC.
1419 E. MANASOTA BEACH ROAD
ENGLEWOOD, FL 34223-6341**

<p><i>The Communicator</i> is a monthly publication Of the Tamiami Amateur Radio Club, Inc. Editor: Jack Sproat-W4JS Circulation: San Yoder-K3SY</p> <p style="text-align: center;"><u>2015 TARC Officers</u></p> <p>President: Fred Lathwood-KJ4TNI V. President: Andy Durette-KB1HIP Secretary: Dave Gill-K4JDG Treasurer: San Yoder-K3SY Directors: Jim Shortill-KJ4NDO Conrad Owens-WA3RRS Gary Hagens-K6OC Tom McDermitt-W3GXV</p>
