



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>



-- JANUARY 2011 --

-- PRESIDENT'S MESSAGE --

I guess it's a sign of the times, when we lost three faithful TARC members in a period of just 10 weeks. Try as we might, we just cannot stop the clock—we can just try to make the best use of what time we have.

It's customary for many people to make "resolutions at New Years Eve. How well they keep those resolutions is anyone's guess. However, I would like our members to consider the following for 2011, whether or not you want to call them "resolutions."

As can be seen in the activities calendar published in every issue of this newsletter, TARC has three 2-meter nets every week—other than on our Tuesday meeting dates. To say that participation in these nets is dismal would be flattering! Week after week, one, two or three people check into these nets. While a number of our members live outside the simplex range, at least 65 members are within range of our 2-meter repeater. Don't you have a radio? OK, maybe we can accommodate you. If you have a radio, can you resolve to use it and check into our nets? At least show some interest in your club.

I realize that those who attend our meetings usually do so to see the program. We don't have a Program Chairman, and lately we've been indebted to Hans Napfel-WB2ZZB for his willingness to offer some interesting programs. We are in need of program material. Sure, it's great if it can be ham radio oriented, however, such material can't be found every day. If you belong to any organizations where you see a program that you feel could be of interest to us, please determine how we could also benefit.

73, Stew Haag-W4MO

-- JANUARY MEETING --

Our meeting will start at **6:00 PM** on Tuesday, **04 January 2011** in the Meeting Room of the Venice Public Library, 300 South Nokomis Avenue. A program of interest will follow the business meeting. Details will be in the e-mail "tickle." We hope to see you there.

-- MATT KLAPP-W2EQV; SILENT KEY --



Matt Klapp-W2EQV passed away 09 December at the age of 90. Matt was always a faithful/supportive member of the TARC, and served as TARC President in 2005 and Vice President in 2006-2007. Matt and his wife, Joy-N2WUD, most recently served as the Sunshine Committee for TARC. Every year, Matt provided materials and assistance in the set up and operation of our K4S station from the Sharks Tooth Festival. He and Joy always attended our meetings and breakfasts when they were with us during the winter season. The Christmas gatherings offered by Matt and Joy were the social highlight of the year.

Our condolences go out to Joy and the family.

-- 2011 DUES ARE DUE --

Technically speaking, all 2011 dues should be paid by 31 December 2010, however, we know that is not the case here in the real world. As such, the TARC provides a 3-month grace period through 31 March 2011. On 01 April, any member who has not paid their 2011 dues will be dropped from the rolls of the TARC.

All First Year Free members who were welcomed into the TARC prior to 01 October 2010 will be dropped if they do not become dues paying members. Student members can take advantage of their special rate if they are interested. It's up to all of you to decide.

TAMIAMI AMATEUR RADIO CLUB
Minutes of the Meeting
07 December 2010

President Stew Haag-W4MO called the meeting to order at 6:13 PM and, following a flag salute, introductions were made all around. Leighton Hunter-KB4BHU from Venice was welcomed as a visitor and potential new member.

MINUTES – A motion to accept the minutes of the 02 November 2010 meeting as published in the December 2010 issue of *The Communicator* was moved by Peter Pesa-N4RD, seconded by Fred Lathwood-KJ4TNI, and passed.

CORRESPONDENCE – Secretary Jack Sproat-W4JS reported having received directions from the Library with regard to room requests for 2011. Following instruction, on 30 November reservation requests were submitted via Internet for use of the Meeting Room and Conference Room, with an application review showing “pending” in all cases. However, a phone call from the Library informed us that we were “preempted” by a condo group for use of Meeting Room in February 2011. As no other dates were open during February 2011, Jack contacted Roger Schmitt-KY4RS regarding possible use of his development’s community center, where the Extra class license lessons were held, for our February meeting.

TREASURER’S REPORT – Treasurer Don Jansen-KI4VGE gave the 07 December Treasurer’s Report. The starting balance was \$997.83. Receipts were \$33.00 from the November 50/50 and \$15 in dues, totaling \$48.00. Expenses were \$14.73 for DayStar Internet service, \$19.26 for plates and engraving on the Silent Key Plaque, and \$8.80 for postage stamps, totaling \$42.79. The ending balance is \$1,003.04. Guenther Hennig-AJ4QX moved for acceptance of the report, seconded by Dil Kay-W8DIL, and passed.

COMMITTEE REPORTS

SUNSHINE – Stew Reported that Matt Klapp-W2EQV is fighting bone cancer and is now under hospice care.

VE TESTING – Our next regularly scheduled VE session will be at 10 AM on 11 December at the Venice Public Library. There have been no inquiries to date.

REPEATER/TECHNICAL – The 146 and 444 MHz repeaters are operational, however, the 444 digital machine will be replaced with an analog machine. There are no plans to reactivate the EchoLink mode.

CLUB PROPERTY – No inventory changes.

PUBLICITY/MEMBERSHIP – San Yoder-K3SY was not present to give any updates.

NET OPERATIONS – Net Manager Bob Murphy-WA1UHG gave a dismal report on the minimal interest in our nets. Typically, the Tuesday Simplex Net has 2-3 check-ins, the Wednesday DX Net has 3-4, and the Thursday Emergency Net has 3-4.

LIAISON TO EARS – Conrad Owens-WA3RRS reported that Martin Horowitz-N4FA is looking good. The Englewood ARS participated at the Boca Bop Triathlon and operated a setup at the Sweetbay Supermarket. EARS, through RACES, has linked the Englewood and three Charlotte County hospitals.

LIAISON TO QCWA – Suncoast Chapter 53’s next gathering at Denny’s on Bee Ridge Road in Sarasota will be on 05 January 2011. Hans Napfel-WB2ZZB and Conrad-WA3RRS are working on a PP program covering Conrad’s recent tour of Vietnam. All are welcome to come out, have lunch and enjoy the camaraderie.

OLD BUSINESS – Hans-WB2ZZB has been doing his best to repair the Club’s digital projector.

NEW BUSINESS – Annual Election: Stew expressed his gratitude that several members mentioned they would be willing to serve as a Director, we had nobody indicate a willingness to be a candidate for one of the Officer positions. Stew then turned the Chair over to Nominating Committee Chairman Peter Pesa-N4RD, who read the following list of candidates for the 2011 Officers and Directors:

Candidates

President – Stew Haag-W4MO
Vice Pres – Bruce Brown-WA8IQF
Secretary – Jack Sproat-W4JS
Treasurer – Don Jansen-KI4VGE
Director – Bob Avrutik-N1RA
Director – Fred Lathwood-KJ4TNI
Director – Conrad Owens-WA3RRS
Director – Peter Pesa-N4RD

Peter then asked for any nominations from the floor. There being none, Peter asked for vocal approval indicating acclimation of the aforementioned candidates. Receiving same, Peter then directed the Secretary to cast one ballot in favor of the candidates.

Trustee for Club License-W4AC: The current trustee, Jon Hamlet-W4ZW has indicated that pending personal obligations preclude his continuing as trustee. Stew announced that he has appointed Peter Pesa-N4RD as W4AC trustee,

See **Minutes**, page 4

CURRENT/PENDING DX ACTIVITY & PROPAGATION HIGHLIGHTS

CURRENT and/or SCHEDULED DX ACTIVITY										
COUNTRY – CALL SIGN	ACTIVITY PERIOD	BEAR-ING	HF BANDS and BEST OPENING TIMES (GMT)							
			80	40	30	20	17	15	12	10
Macquarie Is – VK0KEV; ++, RTTY	Now to April '12	220	09-12	07-13	12-13	13-14	22-23	NO	NO	NO
Gough Is – ZD9GI	Now to Oct '11	132	23-07	22-07	22-01	13-22	16-19	14-22	NO	NO
Marion Island – ZS8M	Now to May '11	130	23-03	22-03	--	19-22	18-22	NO	NO	NO
Angola – D2SG	Now to Feb '11	96	22-06	20-07	20-00	13-22	14-20	15-19	16-18	16-18
South Shetlands – DT8A	Now to Feb '11	169	01-08	00-09	01-08	22-23	21-22	21-22	NO	NO
Temotu – H40FN, H40FK	Now to 23 Jan	270	07-13	06-14	08-15	19-00	19-22	20-21	20-21	NO
Laos - XWPA	Now to 19 Jan	353	--	10-13	--	14-18	14-18	NO	--	--
Namibia – V5/Home Calls by Germans	Now to 16 Jan	107	22-05	21-06	21-00	13-22	14-20	15-19	15-20	15-19
Dem. Rep. Congo – 9Q0HQ/6	Now to 11 Jan	88	--	20-06	--	13-22	--	15-19	--	15-18
Ogasawara – JD1BMH	Now to 08 Jan	317	07-13	05-14	13-15	21-22	NO	NO	NO	NO
Sierra Leone – 9L1BXU	Now to 07 Jan	91	22-09	19-09	19-23	13-21	15-20	16-18	15-19	NO
Palau – T8CW; focus on digital modes	Now to 06 Jan	306	08-13	07-14	13-15	15-16	21-30	16-17	16-17	NO
Solomon Is – H44DA	01 to 06 January	275	07-13	06-14	12-15	19-00	19-22	20-21	20-21	NO
Maldives – 8Q7FF	04 to 09 January	41	23-02	20-02	21-23	14-21	15-20	16-18	16-18	16-18
Mauritius – 3B8/F6HMJ	05 Jan to 21 Feb	88	23-02	21-03	22-03	16-22	14-20	16-20	16-18	16-18
Spratly Is – DX0DX; team operation	06 to 24 January	337	11-12	10-13	NO	15-18	16-18	16-18	NO	NO
Norfolk Is – VK9N?; Australian team op.	07 to 21 January	250	07-13	06-14	07-15	14-20	18-23	21-22	20-23	NO
Senegal – 6W7SK **	08 to 21 January	87	--	19-09	18-00	13-22	14-20	--	--	--
Rodriguez Is – 3B9/F6HMJ	11 to 21 January	84	22-02	21-03	22-00	16-21	14-20	15-19	16-18	16-18
Christmas Is – VK9XA, etc; Japanese team	14 to 20 January	331	12-13	11-14	13-14	14-16	15-17	NO	NO	NO
New Caledonia – FK/German Home Calls	16 to 26 January	258	07-13	06-14	12-14	14-19	20-22	20-22	20-22	NO
Madagascar – 5R8PR, 5R8HL	17 Jan to 04 Feb	90	23-03	21-04	22-00	18-22	17-21	16-19	16-19	16-19
Vanuatu – YJ8HP, YJ8GR	27 Jan to 02 Feb	262	07-13	06-15	09-15	18-00	19-23	20-22	20-22	NO
South Orkney Is – VP8?; team operation	27 Jan to 08 Feb	163	00-08	23-10	00-08	20-00	14-23	14-23	NO	NO

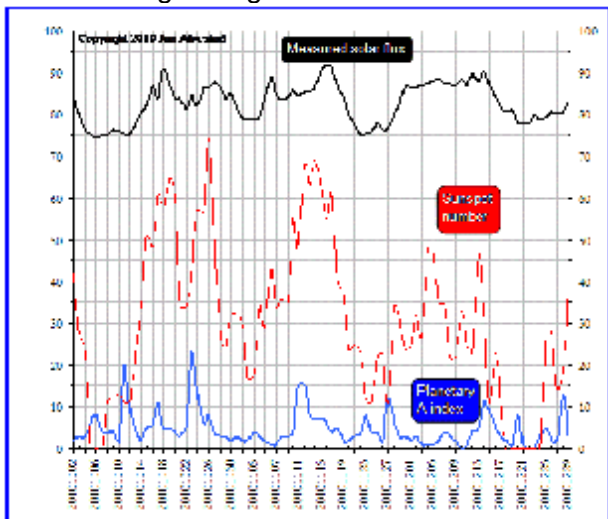
Updated 28 November 2010, based on 24 November 2010 QZ DX, 22 November 2010 *The Weekly DX* and <http://www.ng3k.com>

Notes: Time in bold = Bands with 75-100% opening; ??? = Call Sign not yet known; ++ = Mostly Phone; ** = Mostly CW; NO = No Opening forecast. Long Path bearings and opening times are underlined. All forecasts calculated using W6ELProp V.2.60 propagation software, available to download at <http://www.qsl.net/w6elprop/>. Solar Flux and K-index varied by date in accordance with USAF 45-Day A/P Forecast.

-- DECEMBER SOLAR ACTIVITY --

Through 30 December the Solar Flux ranged from 78 to 90, with a mean value of 84.1 (vs. 77.0 for December 2009 and 69.2 for December 2008). The A-index was ≥ 7 on 6 days. The sunspot number ranged from 0 to 48, with a mean of 21.9 through 29 December.

Sunspot Regions 1131 thru 1138 were active during December, with three C-class flares occurring. High speed solar wind streams (HSS) from coronal mass ejections generally caused December's geomagnetic field disturbances.



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

-- JANUARY FORECAST --

Solar activity is expected to be very low with a slight chance of C-class throughout the month.

No proton events are expected at geosynchronous orbit. The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal levels 01-11 January. An increase to moderate to high levels is expected 12-13 January, with normal levels for the rest of the month. The Solar Flux should average 84.5 during January.

The geomagnetic field should be quiet 01 January, increasing to quiet to unsettled levels 02-04 due to HSS effects from a large coronal hole. The field should return to quiet from 05-19 January. Quiet to unsettled conditions are expected 20-21 due to recurrent HSS. Quiet conditions should prevail through 29 January, when recurrent HSS should cause unsettled conditions 30-31 January.

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

-- DXPEDITIONS OF NOTE --

Don't miss the Spratly Island DX0DX or the South Orkney operations during January. It's been quiet from both entities, so go get 'em!

JANUARY CONTESTS & ACTIVITIES

Contest/Special Event	Begin-End Times/Dates	Bands/Modes	QSO With	Exchange
ARRL Straight Key Night	0000Z 01 Jan 2400Z 01 Jan	80 Meters – UHF CW Only	Anyone, Anywhere	General QSO Routine
Kid's Day	1800Z 02 Jan 2400Z 02 Jan	80 – 10 Meters Phone Only	Kids (operators or visitors)	Name, age, QTH, favorite color
070 PSKFest	0000Z 08 Jan 2400Z 08 Jan	80 – 10 Meters PSK31 Only	Anyone, Anywhere	Call Sign, RST, State
World Wide Peace Messenger Cities	1200Z 08 Jan 1200Z 09 Jan	160 – 10 Meters SSB and CW	Stations in the 100 PM Cities of the World	RS(T) and CQ Zone (5)
ARRL RTTY Roundup	1800Z 08 Jan 2400Z 09 Jan	80 – 10 Meters RTTY Only	Anyone, Anywhere	RST, State
North American QSO Party	1800Z 08 Jan 0600Z 09 Jan	160 – 10 Meters CW Only	North American and Hawaiian Stations	Name, S/P/C
Bulgarian Open Contest	0000Z 15 Jan 0400Z 15 Jan	80 and 40 Meters CW Only	Anyone, Anywhere	6-digit serial + serial from last QSO
United Kingdom DX RTTY Contest	1200Z 15 Jan 1200Z 16 Jan	80 – 10 Meters RTTY Only	Anyone, Anywhere	RST and Serial
Hungarian DX Contest	1200Z 15 Jan 1200Z 16 Jan	160 – 10 Meters SSB and CW	Anyone, Anywhere	RS(T) and Serial
North American QSO Party	1800Z 15 Jan 0600Z 16 Jan	160 – 10 Meters SSB Only	North American and Hawaiian Stations	Name, S/P/C
YLISSB QSO Party	0000Z 22 Jan 2359Z 23 Jan	160 – 10 Meters SSB Only	Members of YL International SSB System	Call Sign, RS
BARTG (British) RTTY Sprint	1200Z 22 Jan 1200Z 23 Jan	80 – 10 Meters RTTY Only	Anyone, Anywhere	Serial
ARRL January VHF Sweepstakes	1900Z 22 Jan 0400Z 24 Jan	6 Meters and Up SSB and CW	Anyone, Anywhere	Grid square
CQ Wide World 160-Meter Contest	2200Z 28 Jan 2200Z 30 Jan	160 Meters Only CW Only	Anyone, Anywhere	RST, S/P/C
REF (French) Contest	0600Z 29 Jan 1800Z 30 Jan	80 – 10 Meters CW Only	Stations in France or French Territories	RST, serial
UBA (Belgian) Contest	1300Z 29 Jan 1300Z 30 Jan	80 – 10 Meters SSB Only	Anyone, Anywhere	RS, serial

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

From ARRL "Contest Corral," December 2010 *QST*, December 2010 *WorldRadio Online*, WA7BNM Contest Calendar

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and the application for license revision will be filed tomorrow.

Potential Dues Increase: Stew commented that he believes the TARC dues should be raised to \$30/year, and asked the members to think about it.

COMMENTS FROM THE FLOOR – The Sharks Tooth Festival will be held 08-10 April 2011, and the application to use Special Event call sign K4S was submitted to the ARRL on 06 December.

Guenther-AJ4QX commented that he really enjoys the camaraderie at the TARC Tuesday and Friday breakfasts at Peach's.

ADJOURNMENT – A motion to adjourn at 6:49 PM was made by Bob Avrutik-N1RA, sec-

onded by Bruce Brown-WA8IQF, and passed. There were 16 members and one visitor present.

PROGRAM – Hans Napfel-WB2ZZB some photos of Croft Taylor-VE3CT followed by a PP presentation "Exploring Oregon: ... in the footsteps of Lewis and Clark" and a reenacted film prepared by the descendents of the Clatsop Indians with whom the expedition encamped during the winter of 1805.

Jack Sproat-W4JS
Secretary

-- A 2011 DUES REMINDER --

Just a reminder that the 2011 dues are due. Our grace period runs until 31 March, then all who are delinquent with their dues will be dropped from the TARC Roster.

-- ZL8X – KERMADEC ISLANDS --

On 19 November the anticipated, international team operation came on the air from Raoul Island. The operation was well received by local DXers.



The Base Camp on Raoul Island.



Some of the antennas around the Base Camp. The extensive antenna systems consisted of:

- 10 – 20 meters; monoband Spider beams
- 40 & 30 meters; two 4-square arrays, each
- 80 meters; 4-square array
- 160 meters; 27-meter high vertical

When ZL8X shut down 06 December, 148,750 QSOs were in their logs! Bruce Brown-WA8IQF managed 17 Q's on 80-10 meters, SSB, CW and RTTY, and Bob Avrutik-N1RA worked 14 Q's on 80-12 meters, SSB, CW and RTTY.

Top Gun in the region was Dan Schaaf-K3ZXL over in Punta Gorda. Dan managed 23 bandslots with SSB, CW and RTTY Q's on 160-10 meters. This earned Dan the #10 spot in Zone 5 and #51 in the USA.

The withdrawal of a State from a league has no revolutionary or insurrectionary characteristic. To term this action of a Sovereign a "rebellion" is a gross abuse of language. - Jefferson Davis

-- INTRODUCTION TO THE PSK31 MODE --

Undoubtedly the most popular digital mode in current use is PSK31. What is it? Where did it get its name? How does it work? Here's an introduction to the mode.

PSK31 or "Phase Shift Keying, 31 Baud" is a digital radio modulation mode used to conduct real-time keyboard-to-keyboard informal text messages. PSK31 was developed and named by Peter Martinez-G3PLX and made available in December 1998. PSK31 was enthusiastically received, and its usage grew like wildfire worldwide. Due to the efficiency of the mode, it became (and remains) especially popular with operators whose circumstances do not permit the erection of large antenna systems and/or the use of high power.

Typically a HF transceiver is connected to the sound card of a PC. When the operator enters a message for transmission, the software produces an audio tone, which sounds to the human ear like a continuous whistle with a slight warble. This is then fed through either a microphone jack or an auxiliary connection into the transceiver, where it is transmitted.

PSK31 is created by shifting the phase of the carrier. In the most-commonly-used variant (BPSK31), binary information is transmitted by either imparting a 180-degree phase shift (binary zero) or no phase-shift (binary one) in each 32ms symbol interval. The boundaries between character codes are marked by two or more consecutive zeros. Since no character code contains more than one consecutive zero, the software can therefore instantly detect the 'space' between characters. Martinez arranged the character alphabet such that the more frequently occurring characters would have the shortest encodings.

PSK31's 31.25 Hz bandwidth was chosen because a normal typing speed of about 50 words per minute requires a bit rate of about 32 bits per second, and specifically because 31.25 Hz could easily be derived from the 8 kHz sample rate used in many DSP systems, including those used in the computer sound cards commonly used for PSK31 operation.

PSK31's efficiency and narrow bandwidth are such that contacts can be conducted at less than 100Hz separation, so at least twenty simultaneous PSK31 contacts can be carried out in the bandwidth required for just one SSB QSO.

(From <http://en.wikipedia.org/wiki/psk31>. Look at the site and listen to a typical PSK31 transmission.)

-- SATELLITE GROUND STATIONS --

It's been 49 years since the first Amateur Radio Satellite, OSCAR-1, was launched. Since then, more than 70 such satellites (hamsats) have gone into space for use by radio amateurs. Of these, more than a dozen were launched in the past decade.

Most hamsats have been Phase-1 and Phase-2 "birds" that fly in north-south polar orbits or low east-west equatorial orbits from 200-1,000 miles altitude. Such a low-flying hamsat circles the globe, coming within range of a ground station on the ground every hour or so. It stays overhead only 15 to 30 minutes. Polar-orbit, Low Earth Orbit (LEO) satellites come within range of a ground station about the same time every day.

During the '80s, larger amateur satellites in long elliptical orbits were envisioned that would keep them in view of ground stations for hours at a time. These Phase-3 hamsats could provide communication over longer distances because of their higher altitudes. These high-fliers would range out 20,000-30,000 miles from Earth, then loop back around the planet, dropping to within 1,500-2,500 miles of the surface every ten to twelve hours.

For the most part, hamsats are communications repeaters in the sky. Their transponders relay voice, Morse code and digital-computer signals. Most amateur satellites today carry gear for digital computer-to-computer communication and store-and-forward message bulletin-board systems (bbs). Sometimes they are science spacecraft with transmitters for radio propagation tests, ionospheric research, RTTY and meteor sounding; receivers for radioastronomy, radiolocation and other original science research; and television cameras for photos of Earth and space.

Currently the AO-27, SO-50 and AO-51 are three popular LEO satellites that operate with 2-meter FM uplinks (transmitting frequencies) and 70-cm downlinks (receiving frequencies). The uplink/downlink frequencies for AO-27 and SO-50 are 145.850/436.800 and for AO-51, they are 145.920/435.300.

How do you operate the satellites? The best first step is to go to <http://www.hamsat.org> which is the web site for AMSAT, the international clearing house for amateur satellite activities in all countries. If what you read stirs your interest, then consider how serious you want to be with satellite communications.

You will want to know where the birds are, so you need tracking programs. NOVA, SatPC32, Satscape and Orbitron are PC-oriented tracking programs. Mac users can try MacDoppler Pro. For PDA's, try PetiTrack or PocketSat for Palm and PalmPC.

Satellites are like repeaters, however, as they are so small, they cannot receive/transmit on the same band like a conventional repeater. As such, there are three traditional modes being used:

Mode A – 10 meters up/2 meters down

Mode B – 2 meters up/70 cm down

Mode J – 70 cm up/2 meters down

The minimum requirements to work modes B and J are an all mode 2-meter/70-cm radio such as ICOM IC-910H, Yaesu FT-847 or Kenwood TS-2000, or dual VFO HT such as the Alinco DJ-G7T or ICOM IC-91A. A laptop computer with tracking software will tell you the window's time and satellite track, and a hand-held dual band Arrow Yagi will get the signals in and out of the radio.

For an indoor base station, a cross boom or circular polarized yagi or helical antenna, positioned with azimuth-elevation rotator is basic. All the better if it's computer controlled. Full Duplex radios, such as mentioned above, and best if the frequency is computer controlled. Mast mounted preamplifiers are a decided asset.

So, what will an introduction to the use of satellites and a minimum, handheld station set you back? The full duplex HT will run about \$350 and the Arrow antenna is about \$80. Assuming a computer is already available, free tracking software is available. An indoor base station will run quite a bit more. A used Yaesu FT-847 runs about \$1000, a Yaesu az-el rotator is \$700, antennas run about \$350, 20' of tower is about \$350, preamps cost \$480, and miscellaneous cables, connectors, etc. will run about \$250. So, \$3130 should get you on the birds in style.

Undoubtedly the best way to try the satellites would be with a dual band HT and Arrow antenna. The, if you caught the bug, you could upgrade to the first class station. It's up to you.

(From <http://www.spacetoday.org>, "Satellite Base Stations, Craig Gagner-W1MED, which is available on eHam.net, at <http://www.eham.net>, <http://www.hamsat.org> and "Alinco DJ-G7T Handheld – A Full-Duplex Tri-Band HT for Working "Easy Sats," Gordon West-WB6NOA, CQ, January 2011

January 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 HAPPY NEW YEAR & HOPE FOR THE BEST!
2	3	4 Breakfast @ Peach's, ± 7:30 AM TARC Meet- ing 6 PM @ Venice Public Library	5 QCWA Lunch, 11:30 AM @ Panda Pavilion TARC DX Net, 8 PM, W4AC Repeater 146.805	6 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	7 Breakfast @ Peach's, ± 7:30 AM	8 TARC VE Session @ 10:00 AM, Venice Public Library
9	10 DARN Emer- gency Net @ 11 AM; Starts on W4AC 146.805 Repeater	11 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	12 TARC DX Net, 8 PM, W4AC Repeater 146.805	13 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	14 Breakfast @ Peach's, ± 7:30 AM	15 <i>SW Florida Hamfest & Computer Show Araba Shrine Auditorium, Ft. Myers</i>
16	17	18 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	19 TARC DX Net, 8 PM, W4AC Repeater 146.805	20 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	21 Breakfast @ Peach's, ± 7:30 AM	22 <i>TARCFest Tampa ARC Clubhouse, Tampa</i>
23	24	25 Breakfast @ Peach's, ± 7:30 AM TARC Net @ 7:30 PM, 146.580	26 TARC DX Net, 8 PM, W4AC Repeater 146.805	27 TARC Emer- gency Net @ 7:30 PM, W4AC Re- peater 146.805	28 Breakfast @ Peach's, ± 7:30 AM	29
30	31					

NOTE: If the W4AC Repeater is inoperative, nets scheduled for activity on the repeater will be held on the simplex frequency of 146.580 MHz. Thanks for your cooperation.

**TAMIAMI AMATEUR RADIO CLUB, INC.
MEMBERSHIP APPLICATION**

Name _____ Call Sign _____ Class ____ ARRL (Y/N)____

Local Address _____ City _____ Zip _____

Summer Address _____ City/State _____ Zip _____

Tel. No. _____ E-Mail _____ Application Date _____

Please check activity interests: Ass't Net Control____, RFI/TVI____, VE Testing____, Training____, Packet____, RTTY____,
Computers____, DXing____, Contests____, Field Day____, Publicity____, Emergency Communications____, Special Events____,
VHF/UHF____, SSTV____, ATV____, Repeater____, EchoLink____, Other (specify) _____

Regular Member @ \$15.00/year ____ , Family Membership @ \$20.00/year____, Non-Voting Student Membership @ \$5.00/year____ . (New Regular Members joining after 30 June pay \$8.00 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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The Communicator is a monthly publication
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2010 TARC Officers

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V. President: Bruce Brown-WA8IQF
Secretary: Jack Sproat-W4JS
Treasurer: Don Jansen-KI4VGE
Directors: Konrad Owens-WA3RRS
Jon Hamlet – W4ZW
Jack Gaddas-KY1Z
Bob Avrutik-N1RA