

ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LXII NO. 06

P.O. BOX 3454, TUSTIN, CA 92781

June 2021

The Prez Sez... By Nicholas AF6CF



Friends, the world can turn on a dime. If you don't think so, think again: Earthquakes, Floods, Fires can all happen without any warning. Even more so, just a tiny invisible virus can suddenly spread all over the world and and spread chaos economic destruction all over the place, killing many and ruining others while most people have no idea of what to do. So that's why we must be prepared for any disruption in the normal activities of our lives. Field Day as a preparedness exercise was established by the ARRL after the 1933 Long Beach Earthquake, and our Club was founded shortly thereafter.

We are getting as ready as we can. Again, this year the General meeting date is exactly a week before Field Day, so this month we will have a special general meeting just before the actual weekend event and we will talk about the final preparations, details and schedule. Chip K7JA is going to give the final advice to the membership so we should all be ready for a successful event.

This year we will use the new Club's new Generator, so we'll see how it performs. Because of the COVID-19 disruption, the food schedule will be reduced to coffee and water, with a "bring your own" food policy. The activity will be at the Huntington Beach site (see announcement for exact location) and hopefully people will not get lost looking for our location. This month we will have a special general meeting just before the actual weekend event If you are a visitor and have a FCC license. this is the time to operate and have fun. On the other hand, if you have no license, this is your opportunity to operate the GOTA (Get On The Air) to "test the waters", no license required! There are a few operators positions open to help in different areas, so hurry up to volunteer. As usual, the result of this effort will depend on the degree of everybody's participation, so let's try to have as much FUN as possible in the process. After the event, we will evaluate our experiences and see did how and make we improvements next time.

As usual, I look forward to an eyeball contact with you all at the next General Meeting.

73, DE AF6CF

NEXT MEETING

June 18th, 2021
Join us Via ZOOM at 7:00PM!
Current OCARC members
will receive an EMAIL with

instructions. Early check-in available 6:30 PM

Chip Margelli, K7JA

"Preparations for

ARRL Field Day

2021"

SPECIAL NOTICE:

During the COVID-19
pandemic ALL OCARC Nets
will Remain Active!
See page 2.

In This Issue



2021 Board of Directors:

President:

Nicholas Haban, AF6CF (714) 693-9778 af6cf@w6ze.org

Vice President:

Tim Goeppinger, N6GP (714) 730-0395 n6gp@w6ze.org

Secretary:

Corey Miller, KE6YHX (714) 322-0395 ke6yhx@w6ze.org

Treasurer:

Ken Konechy, W6HHC (714) 348-1636 W6HHC@W6ZE.org

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Activities:

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Publicity:

Tom Cowart, W6ETC (714) 454-0571 w6etc@w6ze.org

Technical:

Steven Belasco, N1BKB n1bkb@w6ze.org

Directors @ Large

Dan Violette, KI6X (714) 637- 4632 ki6x@w6ze.org

Tim Millard, N6TMT (714) 744-8909 n6tmt@w6ze.org

2021 Club Appointments:

W6ZE Club License Trustee:

Bob Eckweiler, AF6C (714) 639-5074 af6c@w6ze.org

Club Historian(s):

Corey Miller, KE6YHX (714) 639-5475 ke6yhx@w6ze.org

Bob Evans, WB6IXN (Emeritus) (714) 543-9111 wb6ixn@w6ze.org

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Tim Millard, N6TMT (714) 744-8909 n6tmt@w6ze.org

ARRL Awards Appointees:

Arnie Shatz, N6HC (714) 573-2965 N6HC@aol.com

John Schroeder, N6QQ (West Orange Co.) (562) 404-1112 N6QQ@msn.com

Monthly Events:

General Meeting time & location: REGULAR MEETINGS*

Normally Held third Friday of the month at 7PM, located at:

The American Red Cross
600 Parkcenter Drive
Santa Ana, CA
*See ZOOM announcement pg.1

Club Breakfast (Board Mtg) info:

First Saturday**each month 8 AM Marie Callender's Restaurant 307 E. Katella Ave Orange, CA 92867
** Board will handle Club business by ZOOM at this time

Club Nets (Listen for W6ZE):

10M: 28.375 ± MHz SSB Wed- 7:30 PM - 8:30 PM Net Control: Corey, KE6YHX

2M: 146.55 MHz Simplex FM Mon, Wed, Fri 8:30 PM - 9:00 PM Net Control: Corey, KE6YHX

75M 3.883 MHz LSB

Tue @ 8:00 PM (UPDATED!) Net Control: Corey, KE6YHX

%et-£1-9

Wellness & Support Net

Outside Nets: CARA REPEATER 147.090 MHz (+0.600 MHz) No PL Monday - Friday

9:00AM and 9:00PM NCO & Prg. Director. Tom W6ETC NCO: Jeff: KK6TRC, Don W6ZZW, Chris KF6LEX

OCARC 2021 DUES

Membership period is: 1 January to 31 December

Individual New or Renewal: \$30.
Family New or Renewal: \$45.
Teen New or Renewal: \$15.

New Member Dues are prorated quarterly and includes a badge:
Additional Badges:
\$ 3.
Use one of our interactive online forms to calculate current prices, join the club and/or order badges:

Online Forms / Dues & Badges

\$3. plus mailing costs if applicable Dues are subject to change without notice



W6ZE W6NGO

June 26 & 27

We are returning to a "normal" Field Day this year. The Field Day site will be at the Ocean View School District Office site at 17200 Pinehurst Lane, Huntington Beach, CA 92647.

The fun of the Field Day operations cannot happen without support in setting up and dismantling of the site. Three work parties are necessary to support the OCARC effort:

Work Party 1, Friday morning June 25 we will load the site equipment into trucks and transport it to the Field Day site. This normally takes approximately 2 hours.

Work Party 2, Friday early afternoon June 25 the equipment will be on site, and we will erect towers, antennas, and band stations. This effort requires a great deal of help. As an example, raising our 50' towers requires approximately 12 members to do it safely. We will have multiple smaller towers to erect plus the individual antennas and popup tents. We will have two large 20'x20' tents with tables and chairs.

Work Party 3, Field Day officially ends at 11:00 am Sunday morning and dismantling of the site will begin immediately thereafter. Again, we will need approximately 12 members just to lower the towers. The dismantling of the site and loading the trucks normally finishes by approximately 2:00 pm.

We can't stress enough the need for member support in these efforts. Please show up and volunteer to help as much as you can with any or all of the work parties. Any help is very much appreciated.

For those who may be unlicensed or new to amateur radio or to "contesting" please take advantage of the GOTA "Get On The Air" station. GOTA provides a low pressure environment that lets you get hands on experience of amateur radio. All are welcome to give it a try.

Due to Covid 19 there will protocols in place to minimize exposure. Each person will be responsible for providing his or her own meals.

Hope to see you there, Tim, N6GP Field Day Co-chairman

Ron, W6WG Field Day Co-chairman

OCARC Field Day 2021 COVID-19 Guide lines

California re-opens on June 15th, just in time for Field Day. While we will be 90% back to normal, there are a few guidelines we are following to keep everyone safe:

- 1. Everyone is invited to Field Day whether you have been vaccinated or not. No one will be questioned about their vaccine status. We ask that those who have not been vaccinated to voluntarily wear masks. For everyone else, masks are optional. There is no stigma for wearing a mask.
- 2. The owners of motorhome RV's get to set their own rule about masks, and who can enter their RV.
- **3.** Everyone bring your own food the Boy Scouts will not be providing/selling food this year. No communal food (i.e. passing a bag of potato chips around).
- **4.** Water and coffee will be provided by the club. People are encouraged to bring their own thermos or fluid container for water, coffee, etc.
- 5. Sanitizers will be provided at each station. Sanitize your hands, and make sure they are dry before touching radios. DO NOT sanitize radio knobs or keyboards, etc. They are not designed to withstand the chemicals. You should plan on bringing your own supply of hand sanitizer in case the club supply is exhausted.
- **6.** Bring your own headset with attached boom microphone, and adapters. No sharing of headsets. Bring your own paddle?

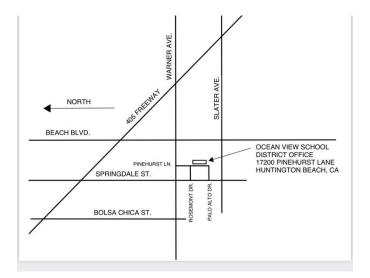
If anyone does not feel safe with the above guidelines they are encouraged to participate from home and contribute their score toward the overall club score.

OCARC Field Day Map

Where: Ocean View School District HQ 17200 PineHurst Ln, Huntington Beach, CA 92647

When: Saturday June 26 at 11am.

Questions: Email Tim N6GP timgep@yahoo.com or Ron W6WG w6wg@w6ze.org



OCARC Field Day University Cram Session - 6pm, Friday June 18 on Zoom

This class is held right before our General Zoom Meeting. We will send this class out as a separate Zoom link. This course is targeted at the beginning level operator.

We hope to train some new operators to operate on GOTA (Get-On-The-Air) station. This class was a secret weapon that helped propel us high ranking scores in previous years. Topics for this class include:

Introduction to Field Day – Is it a contest or not? How to call "CQ Field Day"

Search and Pounce - Knowing when to use it.
Use of Phonetics on the air

US and Canadian Callsigns - How to enter them correctly

Radio Features You Will Need to Use

Hands on training with the N3FJP Field Day Software on your PC. Download the program as a free trial from https://www.n3fjp.com/fieldday.html

This class is taught by Tim Goeppinger N6GP, and it is free.

405 Freeway Road Closure Alert

Be aware of construction closures of bridges around the 405, especially the Warner Ave bridge. Before you go to Field Day, get updates at:

http://octa.net/Projects-and-Programs/Under-Construction/I-405-Improvement-Project/Construction/

OCARC GENERAL MEETING MINUTES 2021-05-21

Due to the restrictions on social gatherings with the pandemic, the fifth General Meeting of the year was via Zoom on Friday, May 21, 2021. The meeting was called to order by our president Nicholas AF6CF at 7:00 PM PDT. There were thirty-six (36) members, guests and visitors present, including our speaker.

Pledge of Allegiance

The meeting begins with the Pledge of Allegiance.

Visitor Introductions

Bob AF6C introduces a new member, Carl Kerckhoff KN6LDW.

Nicholas AF6CF shows an April presentation of the turboencabulator, a breakthrough technology by Rockwell International. HIHI

Meeting Presentation

Our vice president, Tim G. N6GP introduces Marty Woll N6VI who presents his "3B8M DXpedition to the Mauritius Islands." Mr. Woll has been a licensed Amateur for well-over 50 years. He served as an ACS emcomm with the Los Angeles Fire Department and was a volunteer examiner for Amateur licensing. Mr. Woll was Assistant Director for the ARRL Southwestern Division for nine years. He has worked OCARC member stations in many VHF contests, and is involved in DX, visiting nineteen different zones in nineteen years around the world, for the CQ Worldwide Contest, his latest being the DXpedition to Mauritius Island in 2019, presented here.

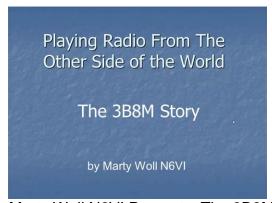


Fig 1 – Marty Woll N6VI Presents: The 3B8M Story



Figs 2 and 3 – Maps of Mauritius Island





Figs 4 and 5 – Antennas and Installation





Fig 6 – Our DXpedition Host, Olof Lundberg G0CKV Fig 7 – Art Goddard W6XD



Fig 8 – The 3B8M QSL Card

Marty describes the licensing, luggage restrictions and accommodations, needed tools, antenna transport and its exceptions. It is a lengthy multi-leg flight to Mauritius Island, with procedural inconveniences, but with some beautiful views from the air. Marty tells us a peninsula on Mauritius was the remote operating location.

Many antennas were used for the various DX bands, says Marty. At sunset and sunrise, Marty operated 80m with the U.S. Breakfast and a late lunch fed them through the dinner hours every day. Olof G0CKV, one of the founders of INMARSAT, was their host. There were many very resourceful and skilled operators participating in this DXpedition. The final score of over 19,000,000 was enough to get them into the top-ten in the contest. They were also named CQ DXpedition of the year by the CQ Worldwide Contest.

Marty fields three questions from the audience, including advice on pelican-boxes, the zones they operated, and recommended beginner DXpedition locations. Marty adds that the airfare, rental, food, baggage fees, and licensing costs were very reasonable. In closing, Marty tells us of his experiences

with SK Art Goddard W6XD. He will be missed. We thank Mr. Woll for an excellent presentation.

Business Meeting

The Business Meeting was called to order by our president, Nicholas AF6CF at 8:09 PM PDT. All ten (10) Board members were present for a quorum. Fifteen (15) topics were brought to the Board, tonight.

ARRL Field Day 2021

The first topic Nicholas introduces is ARRL Summer Field Day. The activity is approved by the site location officials, and we have an effective team for the various activities at the Huntington Beach location.

Field Day co-chair, Tim G. N6GP announces the station designator is "5A," plus a VHF and GOTA station. Ron W6WG shows the spreadsheet for the operators, equipment, and bonus points. Tim G. summarizes the bands and band captains. Ron summarizes the bonus points, and shows the site diagram. Ron adds that Field Day plans are still in the works, and there will be one more Field Day Planning Meeting.

Club Equipment

Nicholas AF6CF announces we have a new 3KW-class dual-fuel generator for Field Day. From the SK donations, Tom W6ETC offers a radial arm saw to the membership. Steve N1BKB describes a tower from the donations as an offer to the club members.

Director Reports

-Vice President Report: Tim G. N6GP announces Chip Margelli K7JA is speaker for our June General Meeting, and it is much appreciated.

•General Meeting Program:

June: Chip Margelli K7JA on "ARRL Field Day 2021"

- **-Secretary Report:** Corey KE6YHX got the mail at the post office box Thursday, and will get it to Ken W6HHC this Saturday.
- **-Net Control Report:** Corey KE6YHX, Net Control, reports since the May Board Meeting, the five (5) Coronavirus Nets average two-point-eight (2.8) attendees, and all fourteen (14) Nets together average three-point-seven (3.7) attendees.
- **-Treasurer Report:** Ken W6HHC raises the extended discussion about the new generator. A motion is made to approve the generator budget of \$1,000. It is seconded and carried by the membership at 8:34 PM PDT
- **-Public Relations Report:** Tom W6ETC tells us we need to fulfill the local media and "site visitation by an elected governmental official" bonus points for Field Day.
- **-Membership Report:** Bob AF6C reports the web roster is up-to-date, and the badges are in the works.

•Opportunity Drawing:

Nicholas AF6CF introduces the opportunity drawing, and the prize of a large wall clock. The

prizewinner is Carl Kerckhoff KN6LDW.

Good of the Club

-Tom W6ETC asks Corey to announce the Club Nets, and Corey summarizes the times, days, and frequencies of the five (5) Nets.

Tom offers an invitation to the attendees to the Net-at-Nine on the CARA repeater.

- -Bob AF6C raises the need of some strong hands to take down the tower from the Tegel SK donation.
- -Tom requests an antenna for a Veteran's Net in L.A. he can't reach with his 440 MHz vertical.

Ask The Elmer

- -Paul Whitely WA6GFT asks if there is a Club Historian for information on old Ham gear his father owned. Nicholas directs the question to our Club Historian, Corey KE6YHX, and Corey tells Paul we normally keep records and information on the Club itself, and directs the question to our technical chairman.
- -Steve N1BKB asks what IRS corporate designation the Club holds, for possible donation tax deductions. Nicholas directs the question to our treasurer, who is not present. Steve will contact Ken.
- -Wayne Yoshida KH6WZ asks about the possible requirement of individual-supplied microphones for Field Day, and Dan KI6X tells him it is up to the individual, and not a requirement.

Adjournment

A motion to adjourn was made, seconded and carried at 9:08 PM PDT.

--Respectfully submitted by Corey KE6YHX OCARC Secretary.

OCARC BOARD MEETING MINUTES 2021-06-05

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Due to the restrictions on physical gatherings with the pandemic, the sixth Board Meeting of the year was via Zoom on Saturday, June 5, 2021. The meeting was called to order by our president, Nicholas AF6CF at 8:16 AM PDT. All ten (10) directors were present for a quorum, and there was one (1) member attendee, Gene Eckert KJ6OML. There were eighteen (18) topics brought to the Board this morning, and two (2) motions carried, including adjournment.



Fig 1 – All Board Directors were present.

Director Reports

- **-Secretary Report:** Corey KE6YHX got the mail at the Tustin post office box Thursday. There was one dues payment and one receipt for our post office box renewal.
- **-Treasurer Report:** Ken W6HHC Reports the inflows are well ahead of outflows. The cost of the post office box went up, again. The generator was \$915, and we received a generous \$500 donation from member, Frank W6NKU, to defray the cost of the generator. **See the Treasurer's report in this Newsletter on Page 17 for details.** Financially, we are in very good shape.
- -Activities Report: Ron W6WG asks if we should have another door prize, and Ken W6HHC says we have a very nice item (See page16) to award an attendee.
- **-Membership Report:** Bob AF6C reports, at present, we have 115 members, and all the pending badges are made and sent out.

•Old Business:

Tegel SK Antenna Teardown: Steve N1BKB says we will need five or six people to take down the tower. There are two issues with the winch to bring it down, and the tower itself weighs about 200 to 225 lbs in weight. We need ropes for safety and a ten-foot ladder to serve as a fulcrum for the ropes. The tower is set at its base on a rotator. We will also need a six-foot stepladder for support to remove the yagi antenna. Next Saturday afternoon around at 1:00 PM, or any weekday are good times for Steve. Someone will also need to accompany the tower transport to help unload it, says Steve. A time is set for next Saturday, June 19, at 2:00 PM PDT.

Newsletter Editors:

June: Greg W6ATB July: Tom W6ETC

August: Nicholas AF6CF September: Dan Kl6X October: Tim M. N6TMT

November: --open to volunteers--December: --open to volunteers--

General Meeting Programs:

June: Chip Margelli K7JA "ARRL Field Day 2021"

July: —to be determined—

The meetings will be via Zoom until further notice.

•Hybrid Meetings:

Tim M. N6TMT cannot reach our current contact with the American Red Cross in Santa Ana, so Tim G. N6GP got a hold of a different contact for the ARC. The new contact says the ARC is holding virtual meetings at present and is looking to the national organization for policy and guidance. We are to assume Zoom meetings will be held until the end of the year.

•ARRL Field Day 2021:

It is agreed that the old generator will not be used at Field Day 2021. The new generator has been tested and is at-the-ready. The second Field Day meeting of the year is via Zoom Wednesday, June 16, 2021, at 7:00 PM PDT.

•Net Activity Report:

Corey KE6YHX reports, since the May General Meeting, the four (4) Coronavirus Nets average 1.5 attendees and the ten (10) Nets together average 3.1 attendees. The Coronavirus Nets continue until the end of June, with general approval of the Board.

•Club Web Site Status:

Bob AF6C says we are always looking for a picture for the front page of the web site.

New Business

New Club Generator:

Nicholas AF6C reports the new Firman WH3200 generator works. He made a new adapter cable with the boxes, and they are stored with the generator at Tom W6ETC's QTH. Nicholas plans to retrieve the generator and run it a few hours to break-in the motor. He has two propane tanks and about a gallon of gasoline, and Tom can bring an extra propane tank to Field Day.

•Field Day Budget:

The Field Day budget is discussed. A motion to approve a budget of \$500 is made by Bob AF6C, seconded by Tim G. N6GP, and carried unanimously by the Board at 9:22 AM PDT.

•Field Day COVID-19 Guidelines:

The current guidelines of the email from Ron W6WG on June 1, written by Tim G. N6GP, and reviewed by a doctor on-staff, are met with general approval with the change that water and coffee be provided by the club. Tim G. can donate hand sanitizer. The guidelines will be sent out to the membership.

•Field Day University:

It is agreed that Tim G. N6GP hold a Field Day University at 6:00 PM PDT on June 18, before the General Meeting.

Good of the Club

-Corey KE6YHX raises the need for an antenna and tower for Vijay NA6VJ's FT8 station, and Tony N2VAJ says there is some confusion as to the GOTA band captain. A push-up mast can be provided by the Club, and Vijay has a dipole he can use. The directors clarify Tony will be the GOTA captain, and the other band captains will provide support while Tony is operating satellite.

-Tim M. N6TMT tells us the Claremont Radio Swap Meet is recommencing on Saturday, June 19, 6:00 AM PDT, at the Granite Creek Community Church.

Adjournment

A motion to adjourn is made, seconded, and carried at 9:54 AM PDT.

--Respectfully submitted by Corey KE6YHX, OCARC Secretary.

RadioActivity June 2021

Upcoming Activities:

June

- *ARRL June VHF QSO Party: 1800 UTC Saturday June 12 through 0259 UTC Monday June 14.
- Kids Day: 1800 UTC through 2359 UTC Saturday in June 19.
- Field Day: 1800 UTC Saturday 26 through 1800 UTC Sunday 27.

July

- RAC Canada Day Contest: 0000 UTC through 2359 UTC Wednesday July 1.
- FISTS Summer Slow Speed Sprint: 0000 UTC through 0400 UTC Saturday July 4.
- IARU HF World Championships: 1200 UTC Saturday July 10 through 1200 UTC Sunday July 11.
- *CQ WW VHF Contest: 1800 UTC Saturday July 17 through 2100 UTC Sunday July 18.
- RSGB IOTA Contest: 1200 UTC Saturday July 24 through 1200 UTC Sunday July 25.

Note: When submitting logs for ARRL Contests indicate your club affiliation as "Orange County ARC"

State QSO Parties:

• West Virginia QSO Party: 1600 UTC Saturday June 19 to 0400 UTC Sunday June 20.

•

Ongoing Activities:

• Super QP Challenge: Year Long Event 0000 UTC Jan. 1 to 2400 UTC Dec. 31.

Repeating Activities:

- Phone Fry: Every Tuesday night at 0230 UTC to 0300 UTC Wednesday
- **SKCC** Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month. 1200 Sat. to 2359Z Sunday.
- SKCC Sprint (Straight Key CW) 0000Z to 0200Z on the 4th Tuesday night (USA) of the month.
- CWops Every Wednesday 1300 UTC to 1400 UTC 1900 UTC to 2000 UTC and Thursday 0300 UTC to 0400 UTC
- K1USN Slow Speed Test: (CW, 20WPM Max.) Every Friday 2000 UTC to 2100 UTC
 Every Sunday night at 0000 UTC to 0100 UTC Monday

OCARC Club Nets:

• 75 Meter Net: Every Tuesday night at 8:00 pm to 8:30 pm Local Time. SSB 3.883 MHz.

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^{*} Indicates club entries are accepted

^{**} Indicates team entries are accepted

RF Newsletter Orange County Amateur Radio Club

www.W6ZE.org

- 10 Meter Net: Every Wednesday night at 7:30 pm to 8:30 pm Local Time. SSB 28.375 MHz.
- 2 Meter Net: Every Wednesday night at 8:30 pm to 9:30 pm Local Time. FM Simplex 146.55 MHz.

Other Nets:

 Net-AT-9: Wellness & Support 147.090 MHz (+600 MHz, No PL) Monday thru Friday 9:00 am and 9:00 pm Local Time

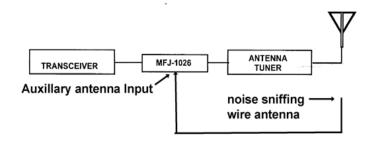
Send an email to Ron W6WG, <u>w6wg@w6ze.org</u> to have your favorite activity or your recent RadioActivity listed in next month's column.

Frank W6NKU has donated a "door prize" for our next ZOOM General Meeting.

The "no cost" door prize is a good-condition MFJ-1026 HF Noise Canceling unit for 1.8 - to 30 MHz (with manual). See PDF of manual (front page shown) and a Block Diagram of the MFJ-1026 Noise Canceling unit.







Concept Block Diagram of MFJ Noise Canceling Unit

OCARC Cash Flow

1/1/2021 through 5/31/2021

Category	1/1/2021- 5/31/2021
INFLOWS	
Badge Income	1.64
Donation -new FD Generator	500.00
Dues, Family (PayPal)	129.50
Dues, Membership	390.00
Dues, Membership (PayPal)	1,615.46
Dues, Membership (Paypal)	2022 57.66
TOTAL INFLOWS	2,694.26
OUTFLOWS	
Generator - new Firman	915.87
OCARC Historian	97.91
PO Box Rental	118.00
Web Site Hosting - PayPal	76.00
ZOOM subscription	149.90
TOTAL OUTFLOWS	1,357.68
OVERALL TOTAL	1,336.58
OCARC ASSETS	
Wells Fargo Checking	2,938
PayPal Account TOTAL	3,296 ASSETS 5.234



MiniTiouner-Express

Digital Amateur Television DVB-S/S2 Receiver / Analyzer





Available at DATV-Express.com

- Operates with Windows PC using free MiniTioune software from Jean-Pierre F6DZP
- Smaller than a stack of 2 decks of cards (picture above is full size)
- Two independent simultaneous RF inputs with internal preamps
- High sensitivity -100dBm @1288MHz at 1/2 FEC
- Fully assembled/tested in aluminum enclosure
- Covers 144-2420MHz (ideal for Space Station DATV reception)
- Symbol rates from 75 KSymb/s to >20 MSymbols/sec
- Uses external 8-24VDC supply or +5V from USB-3 port (with small modification)
- Real time signal modulation constellation & dBm signal strength display
- Price: US \$75 + shipping order with PayPal

