



The Centurion

Volume 2020, Issue 1

March

Priceless

Register Now! The 3905 Century Club 2020 Eyeball Is On!

The gathering at Lake Tiak O'Khata Resort in Louisville, Mississippi, from Wed., July 15 — Sun., July 19, 2020, puts us in MFJ's backyard

Kirk Frazier, AA1NA

Come enjoy Mississippi! The 2020 Eyeball is July 15–19, 2020, in Louisville, Mississippi, at Lake Tiak O'Khata.

This year's Eyeball offers a great venue, a tour of MFJ Enterprises, special nets on site, regular evening nets, two banquets, grand prizes, a mobile shootout, a Board of Directors meeting, an annual membership meeting, and a whole lot more!

Our venue is the Lake Tiak O'Khata resort. The resort is a family-run operation with a hotel, restaurant, meeting rooms, RV camping, and plenty of pine trees for antennas!

Located in the east-central part of the state, there is plenty of opportunity to work nearby states, the Mississippi capital, tripoints, and other features while on the way to the Eyeball! A variety of packages have been made

available to us, from the full meal deal to more frugal offerings.

Lodging, meal plans, and any special requests pertaining to the resort can be arranged by calling



The 2020 Eyeball in Louisville, Mississippi, promises to offer all we need in one place. Photo courtesy of Lake Tiak O'Khata

Mrs. Carmen White at 1-(888) 845-6151 or reservations.ltok@gmail.com. Southern cooking is especially famous at Lake Tiak O'Khata! Generous helpings of fried chicken and fried catfish will be on the menu, as well as vegetables, breads, and delicious deserts! Check out LTOK's website for a daily menu: www.ltok.com

2020 Eyeball Details >5

President's Column
Looking back on 2019 and an historic net >2

Recognized
Hurricane Net sends its appreciation >2

Awards Highlights
Could this be news with you in it? >3

Eyeball Preview
An outstanding experience just around the corner >5

Call Area Roundup
Member news from around the U.S. >7

New Master #72
A profile of Dwight Greenberg, WF4H >10

Infographic
When do Masters get their degrees? >14

Silent Keys
Remembering WU9T, K1INX, and K1MAA >15

Solar Box Scores
What the numbers mean, explained >16

Head Scratchers
3905 CC-themed puzzles by AG5T >17

The President's Quarterly Column

Dean Davis, N7XG
President

As president of the club there are not many official actions I can do. I can oversee the nets, help shape the administration of the club, and yes, there is one other honor I can perform, and that is complete the Master's Award for Dwight Greenberg, WF4H. I will not go into very much detail, since there is another story about him in this Centurion, except I will say that I have known him for about nine years and had many memorable visits with him at Eyeballs.

The holidays are behind us, and, as near as I can tell, we had plenty of check-ins to our nets. Several people brought special event stations, along with holiday themed QSL cards.

In 2019, the club gained 29 new members (a bit up from 2018), and, so far in 2020, we have gained five new members. Even though we issued fewer awards, 2019 was a good year. Propagation is playing a not-so-good part in higher check-in numbers.

This past election was open to even-numbered area directors and president. The results of the regular election were that Peter, N2XTT, Ben, AE4NT, Ralph, K8WGL, Ray, WB0PYF, and myself, N7XG, were all

reelected to serve another term. There were no nominations for the sixth area, and a special election was run in which Joe, KJ8O, was elected. Joe served as Eighth Area Director from 2014–2016. Joe moved to California in mid-2019, and Ginger appointed him as Sixth Area Alternate Director. Ginger, AB6YL, is our only outgoing director, having served the sixth area since 2018. A big thanks goes out to Ginger.

March begins our new fiscal year, and the new order of business is to welcome newly elected officers. It is also a time that the board will elect the Chairman of the Board, Secretary, and Treasurer. Dan Michnay, K9EA, has decided to step down as Secretary, so the board will need to elect a new person.

Dan has done an excellent job over the past two years, and he will be missed.

And, finally, one of our original charter members has started to check in once again, and he shared with us a check-in list from 1976, which was a historic event.

This is a list of 140 check-ins on 75m sideband, and every state of the Union was checked in. Keep in mind that back in 1976 there were no computers, no email, and no logging programs. If you were not at your radio when it was your turn to check in, you had to wait until the round was over.

Every state of the Union was checked in on 75m sideband

Hurricane Net Recognizes Century Club

The 2019 Atlantic basin hurricane season, just like the past few seasons, was extremely busy and historic.

Sadly, many lives were lost while others had their lives turned upside down.

Our thoughts and prayers are with everyone affected by the 2019 Hurricanes. Hopefully, the 2020 Season will be a calm one!

On behalf of the Hurricane Watch Net, please accept my sincere thanks for your support this year and every year.

Being able to work with groups like the 3905 Century Club certainly helps our mission in helping others before, during, and after a hurricane, and more importantly, helping save lives!

Attached is a special token of appreciation.

Bobby Graves, KB5HAV

Addendum

The 3905 Century Club supports the Hurricane Watch Net (HWN), which is activated on 14.325 MHz and 7.268 MHz when a hurricane is within 300 miles of landfall within the Caribbean, Central America, U.S., or Canada.

The Century Club's regular frequency for the 40m SSB Early Net is 7267.5, which we move to 7.243 MHz for the hurricane's duration. This citation is for our cooperation with HWN to free the frequency for their use. **Dwight Greenberg, WF4H**



Awards Highlights: First Quarter

Spotlighting outstanding achievements and the club's newest award

Ben Goldfarb, AE4NT

Awards Secretary & Awards Committee Chair



AE4NT Goldfarb photo/
Centurion illustration/WO4H

Awards highlights include listings of major newsworthy awards — new members, major progressive awards, DX awards, and WAS awards — along with other awards-oriented information. In each issue, we wrap up the column with either an in-depth presentation of one of the club's over 60 awards, or with hints and tips for efficient pursuit of that wallpaper we all seek.

In this issue, we feature the club's newest award, the Oldest Established Towns Award.

Awards issued for the quarter

During the period November 15, 2019, to March 5, 2020, we issued 105 awards or endorsements to 47 members in nine call areas. The following are the highlights of several categories of awards.

Master's Degree

We awarded our first Master's Degree since 2017 to **Dwight Greenberg, WF4H** (Master #72, past president), of Cocoa, FL. (See feature article elsewhere in this issue.)

For those of you who are unfamiliar with the requirements for the Master's Degree, please see the Awards Highlights column in the December 2019 issue of the Centurion or download the [online Master's Degree Award application](#) from the club website.

New members

We welcomed nine new members during the period. They are **Brooks Blakey, K2CNN**, of Gordo, AL; **John Black, N4MMR**, of Dunedin, FL; **Dean Adinolfi, KD3ANX**, of Jobstown, NJ; **John Zuwasti Curran, WO4H**, of Washington, DC; **Tim Ricke, W0TLR**, of Battlefield, MO; **Claus Nielsen, AE0S**, of Ames, IA; **Todd Samuelson, KY4FF**, of

Lexington, KY; **David Lucht, W8DDS**, of Centreville, VA; and **Robert Moody Sr., WB8RWM**, of Fairbury, NE.

By earning their first 100-point awards, they become voting lifetime members of the 3905 Century Club.

Congratulations to all!

Major progressive awards

In this section, we shine the spotlight on those who have earned major progressive awards during the period.

From the initial 100-point award onward, progressive awards recognize significant, well-rounded achievements on our nets. The Master's Degree, our awards system's highest



Peter Summers, N2XTT, extended his lead over all progressive award holders by earning an almost unbelievable 43,000 points

distinction, requires 2,000-point certificates on primary and secondary bands. Here, we list 1,000-point awards and up, and additionally include 500-point awards for CW, digital modes, and 160 meters (all modes).

Huge congratulations to those who have reached these lofty milestones!

43,000 points

Peter Summers, N2XTT

(Master #6, Second Area Director, Awards Committee Member), of Little Falls, NJ, extended his lead over all progressive award holders by earning this almost unbelievable point total on 40m SSB.

His Area Awards Manager, **Clay Statmore, WA2JIM**, has not been seen for months, as he typically must spend a huge amount

105

awards were issued to 47 members in nine call areas between Nov. 15, 2019, and March 5, 2020

of time sequestered while checking these awards for Peter. (By the way, Happy 82nd birthday, Peter!) A distant second place among progressive award holders is **Joe Rebecca, K5FNS**, who holds a 32,000-point award. Good going, Peter!

24,000 points

Ralph Mitchell, KG8WL (Master #71, Eighth Area Director), of Colon, MI, — 40m SSB. Ralph is Peter's most serious active threat for the points lead. This is a huge accomplishment. Think about it: Just to fulfill the Level III state requirement would necessitate over 5,800 QSL cards! Major congratulations, Ralph!

6,000 points

Dave Southern, KC9YY, of Auburn, IN — 40m SSB. His 6,000 points is nothing to sneeze at! Congratulations, Dave!

1,000 points

Bill Brooks, KM4AJW, of Hickory, NC — 75m SSB. Good going, especially for a guy with a full-time job requiring lots of overtime!

Congratulations, Bill!

Worked All States awards

We issue several flavors of WAS awards.

The WAS General Award can be earned on each band/mode combination. WAS General is required on both primary and secondary bands for the Master's Degree, as well as WAS YL at Level 35 on the primary band.

WAS General

Bill Brooks, KM4AJW — 75m SSB.

Bryan Menzel, KB7RAC, of West Jordan, UT — 40m SSB.

WAS — State Capitals

Mike Rush, KU1V of Nashua, NH— 40m SSB, Level 50.

WAS Mobile

Robert Byers, W4RHB of Hamptonville, NC — 40m SSB, Level 50.

WAS While Mobile

Mike Rush, KU1V — 40M SSB, Level 50.

DX Award

Our DX Award is simple in concept, but difficult to complete when we run afoul of the propagation gods. It requires 25 confirmed contacts with 25 unique countries other than the US.

Steve Davis, K7QHU — 40m SSB.

Dwight Greenberg, WF4H — 75m SSB.

Oldest Established Towns Award

Our newest award as of the time I am writing this is the Oldest Established Towns Award.

The brainchild of **Steve Davis, K7QHU**, this award rewards contact made with and by stations operating from designated oldest towns in each of the United States. Its effective date is January 1, 2020.

The Oldest Established Towns Award encompasses the 50 United States, 13 Canadian provinces and territories, and Washington D.C., the last of which was included as a special courtesy to the author of the award, who was born there.

In some cases, oldest towns were adjusted to reflect current conditions — for example, Jamestown, Virginia (est. 1609) is not accessible during our net hours, so Petersburg (est. 1611), which still operates as a city, was chosen.

The list of oldest towns is, of course, controversial.

However, the Awards Committee decided on locations that would serve as the definitive list for this award. With due deference to those who claim different oldest towns, we will sidestep the controversy. Please check our list before operating from what you consider an oldest town!

There are two versions of the award: The Mobile Tourist version rewards a station operating from oldest established towns,



Our DX Award is simple in concept — but difficult to complete when we run afoul of the propagation gods

5,800

QSL cards are required just to fulfill the Level III state requirement for the 24,000-point award

requiring four contacts each from fifteen oldest towns.

The Armchair Tourist version rewards a station for working those stations who are operating in oldest established towns, requiring contacts with 30 oldest towns.

The home QTH of our Centurion editor, **John Zuwasti Curran, WO4H**, is in one oldest town — Georgetown, District of Columbia — until July, when he will move to the New York area. John is a frequent check-in on our nets, so contacting him in Georgetown while you can will give you your first contact toward this award!

With Spring approaching and mobile operating season nigh, we hope to see many mobiles out there operating from the oldest established towns!

New award in the works

The Awards Committee is working on a new award that will reward contacts with Eyeball attendees. Contacts will be made during a specified period centering on Eyeball week.

This award idea was submitted by our Club Treasurer, **Gary Slagle, K9GWS**. Look for more details in the next issue of the Centurion.

We hope you enjoyed reading about the awards earned by your fellow members and other interesting awards factoids.

Please look for Awards Highlights in the next issue of the Centurion. In the meanwhile, Awards News listing all the awards issued during each week is published on the 3905ChatGrp, 3905Checkins, 3905AwdTalk, and Hamtown reflectors each Friday, except around Eyeball and HamCation weeks.

Ben Goldfarb, AE4NT, can be reached at ae4nt@mrbig.com.

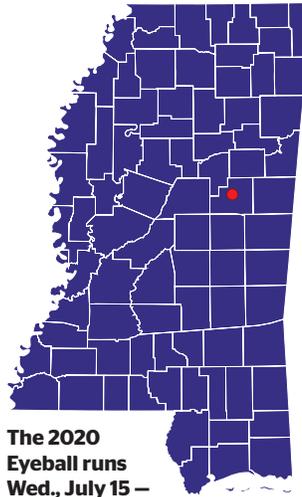
Eyeball Preview

Our host, **Kirk Frazier, AA1NA**, shares expected highlights — two banquets, a mobile shootout, and lots of family fun

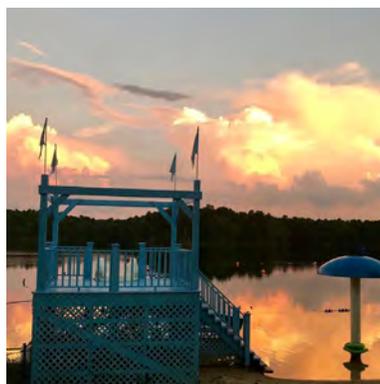
An outstanding highlight of every Eyeball are the special nets! This year is no different as 40m and 75m SSB, CW, and RTTY special nets will be offered in a modified rodeo style. These nets are great fun to work together on while spending time with folks we hear on air every night!

Wi-Fi will be available in the meeting room for those who want to log their contacts. Be sure to bring your laptop or other device that you want to log with. Another added bonus is that all special nets will be on N7XG Logger and Netlogger!

A QRO station will be available for 40m and 75m SSB nightly nets and the 20m net on Saturday! Here is a great opportunity to work the nets MS/M or MS/P!



The 2020 Eyeball runs Wed., July 15 — Sun., July 19, 2020, at Lake Tiak O'Khata Resort in Louisville, Mississippi
Above: Centurion illustration/ John Curran, WOHP.
Below: Photos courtesy of Lake Tiak O'Khata Resort.



2020 Eyeball Preview, Continued

Your host worked the 40m and 75m Early SSB Nets from the Eyeball QTH on Friday, February 28 and found no RFI or other interference.

Two banquets

There is not just one banquet, but two! Mr. Martin Jue, K5FLU and chief executive of MFJ Enterprises, will be our guest speaker Friday night.

MFJ is the world's largest manufacturer of amateur radio products. Mr. Jue's story from humble beginnings to the impressive conglomerate MFJ is today is fascinating. The opportunity to hear this from the man himself is incredible!

One of Mr. Jue's favorite meeting activities as he closes is to raffle door prizes to attendees. Tours of MFJ, Ameritron, Hygain, Cushcraft will be on Thursday morning. Members that wish to will travel to Starkville, Mississippi, for the tours and lunch with K5FLU.

Saturday's banquet incorporates the annual membership meeting. Recognition and awards are presented as we enjoy another Lake Tiak O'Khata feast!

Planning is underway to roast our newest Master's Degree award holder, Dwight Greenberg, WF4H. Grand prizes will be raffled (maybe auctioned) at this banquet.

So far, these prizes include a Kenwood TS-480 HX, an Ameritron ALS-500 amplifier, and a Tarheel 100-HP; other grand prizes are being sought. You do have to be present to win!

Mobile Shootout

The Mobile Shootout will be Saturday morning! Ben, AE4NT, and Dwight, WF4H, will be our Shootout masters.

Mobile members and those wanting to see their rigs in action will travel to a private airstrip hosted by Doug Camp, K5BAK.

Doug is a member of the Starkville Amateur Radio Club and has graciously allowed his airstrip to be used. Finding 1,000

feet of uninterrupted straight path in Mississippi is a challenge, and we are grateful to Doug for allowing us to use his property.

Information about the Mobile Shootout is on the [Eyeball website](#).

Family fun

And let's absolutely not forget our families! Lake Tiak O'Khata offers a waterfront for relaxing or water sliding for XYLs and family.

Our Eyeball hostesses will offer bingo, trivia, and a wine tasting! Other features close by include the Silver Star casino, where gaming is available, and the Geysers Falls Water Theme Park!

The 2020 Eyeball will be a tremendous event! Ask anyone that has been to any of the

Mr. Jue's story from humble beginnings to the impressive conglomerate MFJ is today is fascinating



When you see this sign, you'll know that you've arrived. Frazier photo/AA1NA

previous Eyeballs, the fellowship, activities, and diversions are not to be missed.

Catching up with old friends or meeting face to face for the first time with our fellow club members is an outstanding experience.

Descriptions such as "We had a blast," "There were a lot of laughs," and "What a great time" just do not do justice to the bond we all share in our club or at the Eyeballs.

Sign Me Up!

You can find registration and accommodation information on the club website under [Eyeball 2020](#).

News From Around the Call Areas



Area 1

First area members earned eight awards since the last Centurion; I'd like a much bigger number! I'm looking forward to getting out on the road on the nets, and I plan to operate from the oldest towns in the New England states.

My portable (not mobile) setup is a bit unique. My antenna is a Scorpion SA-680, but with a 17-foot whip on top — clearly not street legal! I have four 13-foot raised radials attached to the base of the antenna. I'm using two linear actuators to raise and lower the antenna.



My car is a hybrid; it sometimes runs on battery and sometimes runs on gasoline. It's nice for gas mileage, but the generators and other electrics put an S9 level of noise into my radio. To avoid the noise, I'm using a 100 Amp-hour LiFePO4 rechargeable battery to power the radio. The car will be shut off while operating. I'm finally ready to go try it out!

First area member Lanning Levine, WA1LNY, is brainstorming and planning for an informal first call area Eyeball. He is hoping to get us all to visit W1AW sometime in May. All Century Club members are welcome. That's it from New England!

Fred, K1UU



Area 2

The second call area has provided the eyewitness feature on the final page this month. Thanks Peter, N2XTT.

Area 4

Thanks for your support

Although I ran unopposed, many area members showed up at the polls and voted for me. I thank you for your confidence in our fourth area team. We pledge to keep the communication flowing and to be responsive to your club needs!



Dwight Greenberg, WF4H, Master #72!

We congratulate Dwight of Cocoa, Florida, on achieving the club's pinnacle award.

For more, see [WF4H profile >10](#)

Orlando HamCation

Orlando HamCation took place on February 7–9, 2020. Many fourth area members attended. I had hoped to greet some of them, but I signed up for VE duty.

The exams were conducted in an out-building — between the location and my bum knee, I only met a couple of you there. I hope to do better next year!

Did you know?

According to the FCC, there are 153,736 hams located in the fourth call area as of March 4, 2020.

Florida is the state in the fourth call area with the most hams at 42,754, and Kentucky has the fewest at 9,542.

The First Annual Official Wireless Blue

Book of the Wireless Association of America, dated 1909, listed just three amateurs in the fourth call area:

Call sign	Name	QTH
VI	V.S. Ivey	Lenoir, NC
CR	Cromwell Gibbons, Jr.	Jacksonville, FL
CP	Dr. Carroll H. Fink	Fernandina, FL

In its early years, amateur radio was not regulated by the U.S. government, and call signs were self-assigned.

This changed with the Radio Act of 1912, a U.S. federal law that required all seafaring vessels to maintain 24-hour radio watch and keep in contact with nearby ships and coastal radio stations. The act also required all amateur radio operators to be licensed. The ongoing conflict among amateur radio operators, the U.S. Navy, and private corporations — along with the sinking of the RMS Titanic — led to the passage of the act.

The original fourth call area consisted of North Carolina, South Carolina, Georgia, Florida, and the “Territory of Porto Rico” (sic), as the Department of Commerce spelled Puerto Rico in its 1913 edition of Radio Stations of the United States.

Thanks to Steve, K7QHU, for these factoids.

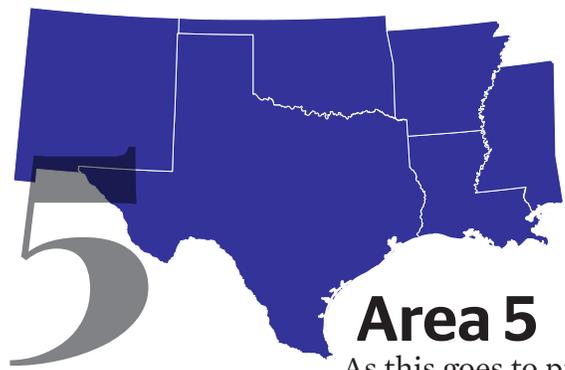
Until next time

Are you aware that the fourth call area has its own message board and email reflector? We use it for communications of interest to area members, including agendas and minutes of Board meetings.

To subscribe to it, email 3905ccn-4th-area+subscribe@groups.io. We do accept guest subscriptions from other call areas, which are read-only. Fourth area members get full posting privileges.

Your fourth area team — Dave, KI4DFS (AAD), Robert, W4RHB (AAM), and I — are here to serve the needs of area members. Please feel free to discuss matters of importance to you with any of us either directly or through the fourth area reflector. Our email addresses are available on the club website.

Ben Goldfarb, AE4NT, ae4nt@mrbig.com
Fourth Area Director



Area 5

As this goes to press, we are just under 130 days to the 2020 Eyeball in Louisville, Mississippi.

I plan to attend and would like to see as many Century Club members as possible in attendance. This will be my third Eyeball, and I can say that I have enjoyed the fellowship, fun, and games at the previous events. There is a [link on the club website](#) to register and get more information.

This is a Class A venue and Kirk, AA1NA, has told me that the Lake Tiak O’Khata staff are pulling all the stops out and are looking forward to making this the best Eyeball yet. I hope to see you all there.



The Chevy Colorado that carried me faithfully on all those adventures met its demise at 335,000 miles

Many of you have worked me mobile or portable from a bunch of western states, and it pains me to tell you that the Chevy Colorado that carried me faithfully on all those adventures has met its demise at 335,000 miles. The HF radio and antennas have been removed, and I am still trying to figure out how to put a Tarheel 200 on a Jeep Liberty. I will get back on the road and will try to concentrate on 75 meters.

There has been talk of another trip to Four Corners — sorry Rob and Rob. The last trip was marred by the fact that the antenna refused to tune on 75m. We figured out the problem, and it will not be an issue with this trip.

One thing that was brought up is that I did not put the grid squares on the QSL cards.

Apparently, DM57 and DM56 are sought-after. Who'da thunk? Should the grid square be important to your personal paper chase, drop me an email and I will remedy that issue. That expedition generated 460 QSL cards.

460

QSL cards generated during Clay's previous Four Corners trip

I have been checking into many of the digital nets, and quite frankly we could use some fresh blood. Everyone is very patient and will help you in any way they can. Check out the net schedule on the club website.

If you are going to make to any of the hamfests that are coming up in the fifth area, please drop me a note. I have plans to make several of the events in Oklahoma and Texas. I will list the big ones that I go to below. I enjoyed meeting Frank, KK5XX, in Oklahoma City last year. I hope to meet other Century Club members this year.

This year, I have a pretty big construction project going on, so I will be staying fairly close to home. Here are the conventions I plan to make:

Green Country Hamfest	Clairmore, OK	April 10-11
Ham-Com	Plano, TX	June 12-13
Ham Holiday	Oklahoma City, OK	July 24-25

Here is a list of the awards issued in the fifth area since the last issue of the Centurion was published. Congratulations to all.

Don Dison, WW5D

75m SSB 100-point award
40m SSB 500-point award

Frank Drews, KK5XX

NCS Expert
Certificate Hunter
Officer Award — 75m SSB
40m RTTY 100-point award

Tyler Tassone, KD5SKS

Worked 30

Clay Mayrose, WA6LBU

Worked 30
40m SSB Numbers Racket
80m RTTY 100-point award
40th Anniversary Award

If I missed anyone, I apologize.

Clay Mayrose, WA6LBU
Fifth Area Director



Area 6

This is Joe Miller, KJ8O, and I am the new Sixth Area Director. I have been licensed since 2006 — fulfilling a life-long dream to become a ham radio operator — and a member of the 3905

Century Club since 2013, when I submitted my first 100-point award for the 40m PSK net.

Since then, I've served as the Eighth Area Director from December 2014 through February 2016; after my wife and I retired, we moved from Michigan to California, where I've served as the Sixth Area Alternate Director since September 2019.

During my working career, I was a senior financial analyst in the healthcare sector for the past 30 years, and in the banking and real estate sectors prior to that.



This club has been through some rough times, and I believe we can all work together to make it better

I believe the primary purpose of the board is to serve our members, whether it is compliance with legal and business matters or providing a fun atmosphere during our nets and other scheduled activities. I am looking forward to serving our members again.

Some of my favorite other activities include listening on the medium wave band, the 10m beacons during the summer months, going to club meetings, occasional contests, and geocaching (I especially enjoy mystery caches).

I invite all members in the sixth call area to contact me at kj8o.ham@gmail.com with their comments and concerns. This club has been through some rough times, and I believe we can all work together to make it better.

Joe Miller, KJ8O
Sixth Area Director

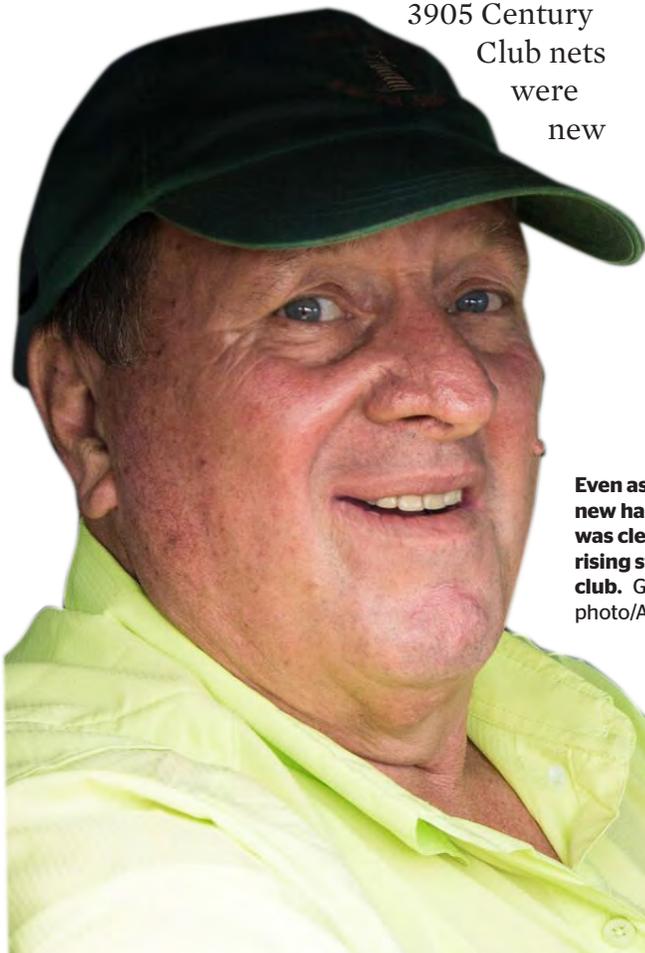
Florida Man Dwight Greenberg, WF4H, Earns Master's Degree #72

'Finish What You Start' Licensed just 10 years ago, this man with tenacious tendencies began the chase soon after from his 'Parrot Shack'

Ben Goldfarb, AE4NT,
Fourth Area Director

Our newest Master has been crowned. He is my friend and fellow Floridian, Dwight Greenberg, WF4H, who settled in Cocoa, Florida, with his wife, Beth, after several stops on his military career before retiring to the private sector in 1989. He has been with the 3905 Century Club since 2010, the year he was first licensed as a radio amateur.

I first met Dwight back in 2013 when he was KJ4SGI, a brand-new ham. While the 3905 Century Club nets were new



Even as a brand-new ham, Dwight was clearly a rising star in the club. Goldfarb photo/AE4NT

to me, Dwight seemed to always be there, so I just assumed he was a big shot in the club. From my newbie perspective, long before he became the club's president and later, Master #72, it was clear that Dwight was a rising star.

Through the years, Dwight and I have become good friends. When Dean asked me to write a profile, I did not hesitate to accept the assignment.

What follows will be a sketch of WF4H from a club perspective. Later, you will learn that Dwight and Beth pursue many diverse interests outside the club and amateur radio, where they have been honored and rewarded for their outstanding efforts.

A productive member

It is an understatement to say that Dwight has been an active member of the 3905 Century Club. Indeed, he has stepped forward to take on several challenging roles within the club, including president from July 2016 to February 2018. He was 40m Early Net Coordinator from 2013 to 2016 and again, from 2017 to 2018. Additionally, he is a cum laude net control station, having run lots of nets himself.

However, when I asked Dwight about the club and his favorite part of the club experience, it was not the titles and the glory that came first.



He immediately replied that he highly valued the camaraderie

with fellow members through contacts on the nets, on the phone, and face-to-face, particularly at the annual Eyeball gathering. He regards David, WN1F, and Rick, WB5FDP,

He regards David, WN1F, and Rick, WB5FDP, as his mentors within the club

as his mentors within the club. Another member Dwight fondly mentioned was Lon, K0WJ, our Mobile Shootout Master Emeritus, whose technical information about mobile configurations significantly helped Dwight not only refine his mobile installation but also place highly in several Mobile Shootouts at Eyeballs past.

Not coincidentally, Dwight will be co-mastering the Mobile Shootout at this year's Eyeball in Louisville, Mississippi, with yours truly.



Dwight with colorful member of the family. Goldfarb photo/AE4NT

Dwight is quite proud to have attended the past nine annual Eyeballs, never missing one, even in the year when he had a very serious health issue. This year will be his tenth in a row — that's every single one since 2011!

What does the Master's mean to Dwight?

I asked Dwight what it means to him to have finally achieved the pinnacle award he had been pursuing with a vengeance for the past five or six years. He said it was like going for the Amateur Extra Class license — being a General was fine, but there was further to go, and he aimed to get there. "Finish what you start," he said. And so, he did. Once his pursuit of Club awards picked up steam, there was no stopping him until he earned the Master's.

The 75m DX award proved to be his



From left: Donnie, KG4ZOD, Dwight, and David, WN1F, on the KS-MO-OK tripoint during the 2016 Eyeball. Goldfarb photo/AE4NT

major stumbling block, as it does for several others. Having completed most of the Masters requirements in 2015, it was the final piece in the puzzle for Dwight. He earned DX Award #244 on February 28 after fortuitously contacting PJ4DX on our net for his 25th DX entity.



You're bending me like a bar of steel, back and forth, back and forth, and I'm about to break!

The pieces all fit together and suddenly, he was on the verge of achieving what had surely felt like an impossible dream, given the band conditions during a crappy solar minimum. When I got a call from Dwight last week telling me he had finally contacted his 25th DX entity and was submitting his award to our Fourth Area Awards Manager (Robert, W4RHB), I was overjoyed for him. However, the process had a couple of hitches.

Alas, my joy was to be short-lived. I had told Dwight that I would wait for final confirmation of the DX Award by Robert ("Old Eagle Eye") before taking any further steps with his Master's application. I was out to dinner when Dwight called me to tell me that Robert had found a discrepancy. My spirits sank and I felt bad for Dwight!

Then, I got another call from Dwight telling me he had found the missing card. I returned the call, leaving a frustrated voice mail. “You’re bending me like a bar of steel, back and forth, back and forth, and I’m about to break!” I said. “But I’m happy for you again! Just don’t call me back and tell me it’s off again!”

Long wait to become a ham

Back in 1968 in Connecticut, the newlywed Dwight admired his father-in-law’s (WIIRY, SK) ham shack, a Collins S-Line setup. Dwight wanted to have one of those, but an empty wallet, the rigors of starting out on life’s path, and military and civilian careers intervened — 40 years’ worth — before he was to revisit this subject.

It was not to be until 2010 that he found the time and money to fulfill the longtime ambition to have a ham shack of his own.

Dwight had turned 59½, so it was time to cash out his IRA. Suddenly, the ham shack money was available.

Dwight got his Technician Class license in February 2010 at Orlando HamCation and then upgraded to a General Class license on April 15, 2010. He then bought his first high frequency rig and strung up a G5RV antenna. KJ4SGI was in business on HF!

Just five days later, new to HF, he came across the 3905 Century Club nets. By November of that same year, he had earned 100- and 500-point awards on both 40m and 75m SSB. After four or five years, Dwight began the Master’s chase in earnest. His peak award year was 2015, when he earned 21 awards!

About the shack

Dwight operates out of a repurposed attached garage in his home in Cocoa, Florida, where he runs a Yaesu FT-950 (his original HF rig) into an Alpha 87a amp running full legal limit.

His antenna farm started with a G5RV, but it has now become much more formidable.

He has a three-element Cushcraft beam with 40m extension kit mounted on a 50-foot tower. The thing is huge! When the tower is folded over, it takes about three days to circumambulate.

For 80m, Dwight employs a dipole, while

for 160m, he has a Cushcraft vertical, “which sucks,” he says.

His backyard also serves as an aviary, which the locus for one of Dwight’s many non-ham passions.



Beth engages in an afternoon chat with a beloved member of the flock. Goldfarb photo/AE4NT

For the birds

Dwight and Beth raise birds: parrots, toucans, finches, and hornbills, to name a few. At one time, the Greenberg aviary — which they dub the Parrot Shack — had 300 birds, about 275 of which were parrots.

The antenna farm towers over the stacks of cages in the Greenbergs’ yard, which have been reduced to a manageable number as the duo enters their golden years.

Not content just to do anything half-assed, Dwight and Beth are the only foreigners to have won the Duke of Bedford Trophy at the English National Bird Show, which is the largest bird show in England.

They also gave a lecture on great-billed parrots (*Tanygnathus megalorhynchos*) to an audience of aviculturists at the Tampa American Federation of Aviculture (AFA) convention back around 2002. The lecture was published in England and Australia; portions of it have been quoted in *Psittaculture: A Manual for Care and Breeding of Parrots*, by Tony Silva (2019).

Finally, Dwight has held several positions with the AFA, including Florida Regional Director, Southeastern Regional Director, First Vice President, Secretary, and

Chairman of Florida Federation of Avian Societies.

An artistic family

While Dwight plays with radios, Beth, when not tending to the needs of the birds, is an accomplished artist who originally studied at the New England School of Art in Boston. She has produced some beautiful works of art and won several blue ribbons, people's choice awards, and other ribbons in juried art shows in Florida.

Beth also was awarded a Meritorious Service Award by Lakenheath Royal Air Force Base for her work as an editor of the base newspaper while she and Dwight were living in the United Kingdom.

Beth's artwork has benefited the club, too. She designed the 40th anniversary logo for the 3905 Century Club while Dwight was president.

Not to be outdone by anyone, Dwight is an accomplished artist of sorts, too. Just listen to him for a few minutes, and you will quickly glean that he is a consummate raconteur.

Lots of wind

I am not calling Dwight a big bag of wind; I refer, rather, to his service as NCS with the Hurricane Watch Net for the past four years, providing communications and information when infrastructure systems fail.

When the net is activated, Dwight often sacrifices sleep to serve the needs of the East Coast, the Gulf Coast, and the Caribbean.

Seeing the light

Dwight serves as Docent with the Cape Canaveral Lighthouse Foundation, where he conducts tours of the lighthouse and museum. Dwight and Beth are lighthouse aficionados, having seen over 300 of them around the world.

A marriage 50 years strong

Having celebrated their 50th wedding anniversary in 2019, Dwight and Beth have been through a lot together. Being a USAF lifer, they have lived in some interesting spots: seven years in Japan, one year in Canada, and four and a half years in England.

Of his assignment in Goose Bay, Labrador, Dwight said he liked it, but Beth didn't. I guess that is why they were there only one year. After a cold winter up north, they were ready for Florida, where they have lived ever since.

Dwight and Beth have a daughter and son-in-law living in the Corpus Christi, Texas, area. They also have a grown granddaughter who is married and lives in Havelock, North Carolina.

Life after the Air Force

Dwight was a master sergeant in the U.S. Air Force for 20 years before his retirement in 1989. His last assignment was as communications superintendent of the 23rd Combat Squadron out of Patrick AFB in Florida — a group known as "The Mob."

After re-entering the private sector, Dwight worked for Harris Corporation (now L3 Harris) for 25 years as a systems support engineer. He is now retired from that, too, and he and Beth have clearly made good use of their free time!

About those cigars

Dwight is famous for never being far from a fine cigar. Doctors and others have told him to quit, but he has no intention of doing so. I do not see that happening anytime soon!

All-around great guy

Although at first blush, Dwight appears to engender the blustery style of a master sergeant, his kind-hearted humility is quick to evidence itself. He is a worthy Master and an asset to our club. It is also an honor and privilege to call him my friend.



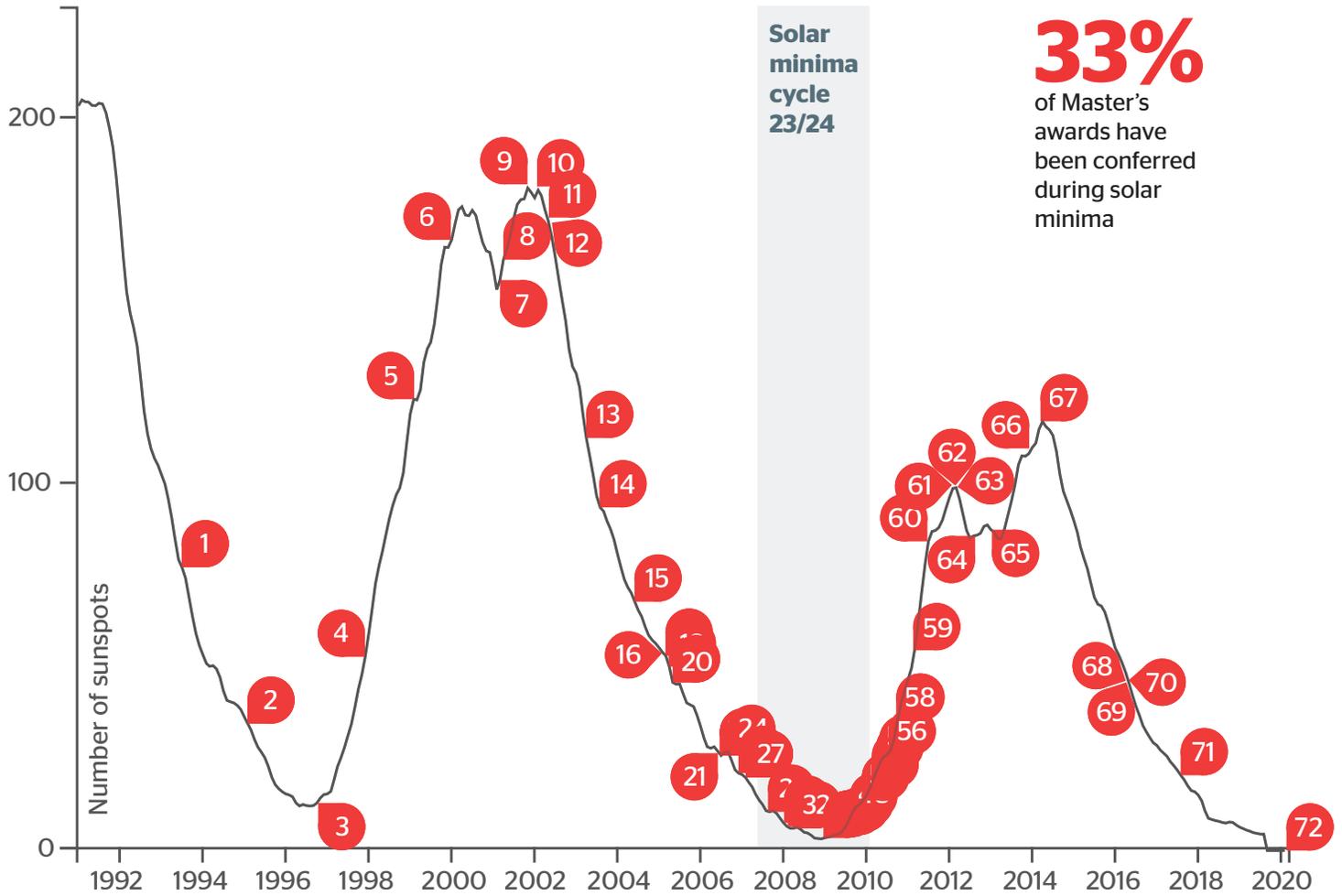
Dwight and Beth, pictured here on Merritt Island, Florida, have recently taken up hunting for geocaches. Goldfarb photo/AE4NT



Gary, K9GWS, and Dwight enjoy a cigar break in the parking lot at Orlando HamCation 2018. Goldfarb photo/AE4NT

Jacks of All Nets, Masters of Sun

Where in the solar cycle have Master's Degree awards been conferred?



Data: WDC-SILSO, Royal Observatory of Belgium, Brussels Centurion illustration/John Zuwasti Curran,WO4H

- | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|
| 1 AB6TX | 13 N2OCW | 25 NOPUI | 37 K2CV | 49 N7WH | 61 W2UJ |
| 2 KC1NA | 14 AK8R | 26 N1NU | 38 NX7F | 50 KCOMS | 62 KG4ZOD |
| 3 W4NNO | 15 WQ1H | 27 NN5G | 39 W0OI | 51 AA3FC | 63 W9OO |
| 4 KI5RN | 16 W6BUM | 28 WU8Q | 40 WTOA | 52 KI4WCQ | 64 AC7RA |
| 5 KE3DK | 17 N5OHL | 29 KJ4JC | 41 K4NOP | 53 VE4ABU | 65 KT4CB |
| 6 N2XTT | 18 WMOF | 30 KE4DYG | 42 K5DWI | 54 K7MI | 66 K3CD |
| 7 KK2M | 19 VE3OII | 31 NC4RS | 43 N3WD | 55 NJ9T | 67 KI4DFS |
| 8 WOMYZ | 20 WD4MXW | 32 K5SVC | 44 KD8EVS | 56 AI3CD | 68 WAOROH |
| 9 KD8QQ | 21 KOHNM | 33 AL7QQ | 45 WB1I | 57 VE3CMB | 69 K6CRA |
| 10 W5IL | 22 WB5FDP | 34 N3YK | 46 WV4EVR | 58 KE4VYN | 70 K4CNM |
| 11 K7MFG | 23 KM5MS | 35 NI7F | 47 W8NET | 59 KD4POJ | 71 KG8WL |
| 12 AA0ZP | 24 NC4MO | 36 N4UPX | 48 KD8JCO | 60 VE9DH | 72 WF4H |

Don Chinnery, WU9T, Concludes His Chase of Rare Awards at 91

Centurion Editor

Donald G. Chinnery, WU9T, of Marinette, Wisconsin, passed away on February 21, 2020.

Born March 21, 1929, in Ludington, Mich. to Alfred and Alice (Fitch) Chinnery, Don



Don, WU9T, at the 2014 Eyeball in De Pere. Mobley photo/WB5FDP

grew up and attended school in Ludington. After graduating from Michigan Tech, he began his career as a chemical engineer in Marquette.

In addition to amateur radio, Don enjoyed strategy

gaming, RVing, and camping.

Don became a 3905 Century Club member

in 1989 as WB9ONA, later adopting the call sign WU9T.

Don's sudden passing surprised many 3905 Century Club members who were looking forward to spending time with him at the 2020 Eyeball.

"I was honored when he came to visit and spent several weeks at my home in Maine a few years ago," Dave Feeney, WN1F, recalled. "I'll miss hearing him on the radio and seeing him at the annual amateur radio conventions we attended."

"I always looked forward to long conversations with Don at the Eyeball," Ben, AE4NT, said. "He had a sharp mind and a great sense of humor. He also chased some pretty rare awards."

The 3905 Century Club Care Committee has sent a card to Don's family.

With additional reporting from the Post-Crescent

'Stalwart' Norm Woods, K1INX, 75

Centurion Editor

Norman E. Woods Jr., K1INX, passed away peacefully on May 6, 2019, with family by his side after a battle with cancer.

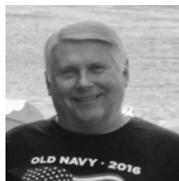
He was born in Lynn, Massachusetts, on October 2, 1943. He was the son of Norman E. Woods Sr., and Martha (Carney) Woods.

He graduated from Lynn English High School in 1961 and from Lowell Technological

Institute in 1965 with a bachelor's of science in electrical engineering. He also completed the University of Michigan's Public Utility Executive Program in 1986.

After moving to New Hampshire in 1965, he joined the Public Service Company of NH, where he had long and distinguished career, retiring after 35 years.

In his personal life, Norm was an active amateur radio



Norm Woods, K1INX. Photo courtesy of family

enthusiast, earning the 3905 Century Club's 100-point certificate for 40m SSB (#2801) on April 4, 2012.

"When I was working NCS on a regular basis," recalled Dwight Greenberg, WF4H, "Norm was one of the stalwart members. He will be missed."

Beyond ham radio, Norm enjoyed sailing. In addition to serving as past Commodore of the Little Harbor Yacht Club, Norm was a

fire buff, and served multiple towns as a firefighter and EMT. Norm and his wife, Judy, loved RVing with their Class A motor home, in which they toured all lower 48 U.S. states.

"We were saddened to learn of the passing of Norm Woods, a frequent presence on 3905 Century Club nets," Ben Goldfarb, AE4NT, said. "Our condolences go out to his family."

With additional reporting from the Union Leader

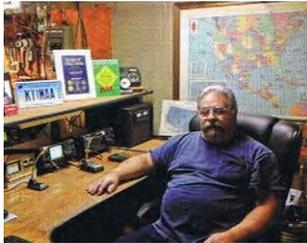
A Helping Ham: Frank Fascione, K1MAA, Is SK

Centurion Editor

Frank J. Fascione, K1MAA, passed away on January 8, 2020. Born on January 21, 1952, Frank grew up in New Britain, Connecticut, and lived in Tolland.

Frank was an enthusiastic ham remembered by friends for his infectious laugh and eagerness to help others in the hobby – whether through volunteering for ARRL, helping friends erect a tower, or guiding someone through a new operating mode.

Frank earned his first Century Club 100-point certificate on Dec. 16, 2008, for 160m (#504), followed shortly thereafter by 100-point awards for 40m (#2617)



Frank Fascione, K1MAA.
Mobley photo/WB5FDP

and 75m (#2846) on Jan. 3, 2009.

“I shared hours of enjoyable QSOs

with Frank,” Ellis Foley Jr., WA1RKS, said. “His great personality and presence ... will be missed.”

“I have a W1AW card that Frank procured for me for working the [ARRL]. I mentioned to him one day I’ve worked the league tons of times and never got a card. He got me one ... It is tacked to my radio bench. I see it every day, so he will not be forgotten.”

With additional reporting from the Hartford Courant

Solar Box Scores – What Do They Mean?

A Index

The A Index represents the overall geomagnetic condition of the ionosphere over a given 24-hour period.

Generally, propagation conditions are best when the A index is 10 or lower, and the K index is 3 or lower.

Values in the 1-6 range are the best, 7-9 are fair, and values greater than 11 are bad.

K Index

The K Index represents overall geomagnetic condition of the ionosphere, averaged across the planet, over the past 3 hours. K index indicates geomagnetic storms. Below 10 MHz, a K value of 5 or greater

increases noise level appreciably, K of 7 or greater degrades HF significantly.

Values in the 0-1 range are the best, 2 is okay, 3 or greater is bad, and 5 is very bad.

SFI

The solar flux index, or SFI, is a measure of total radio emissions from the sun.

Higher solar flux index values generally suggest better propagation on the 10m, 12m, 15m, 17m, and 20m bands. However, changes in the solar flux index rarely indicate effects on the 30m, 40m, 60m, 80m, and 160m bands. When the SFI is greater than 70, then 20m opens. When SFI is greater than 90, then 15m opens.

Values near 70 are not good, while an SFI near 80 is good; values near 90 are better, and an SFI of 100 or greater is best.

X-rays

X-ray emissions – generally a result of solar flares – cause shortwave fadeout.

During a solar X-ray outburst, the lower frequencies are the first to suffer, with subsequent fading up the frequency spectrum over a short period (usually less than a hour). Signals crossing daylight paths are the most affected, which makes sense, since X-rays come from the sun.

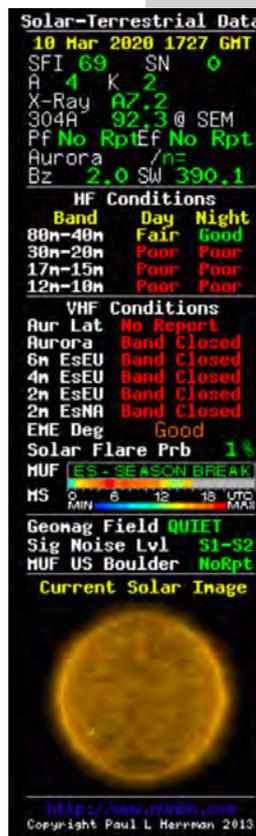
A letter-number combination is used to characterize X-ray emissions. In ascending order of strength, the solar flare classes are A, B, C, M, and X.

The number that follows the letter represents a logarithmic scale from 1 to 9 within each X-ray flare class – for example, B1 to B9, C1 to C9, etc. An X2 flare is twice as powerful as an X1 flare, and is four times more powerful than an M5 flare.

Did my antenna fall over?

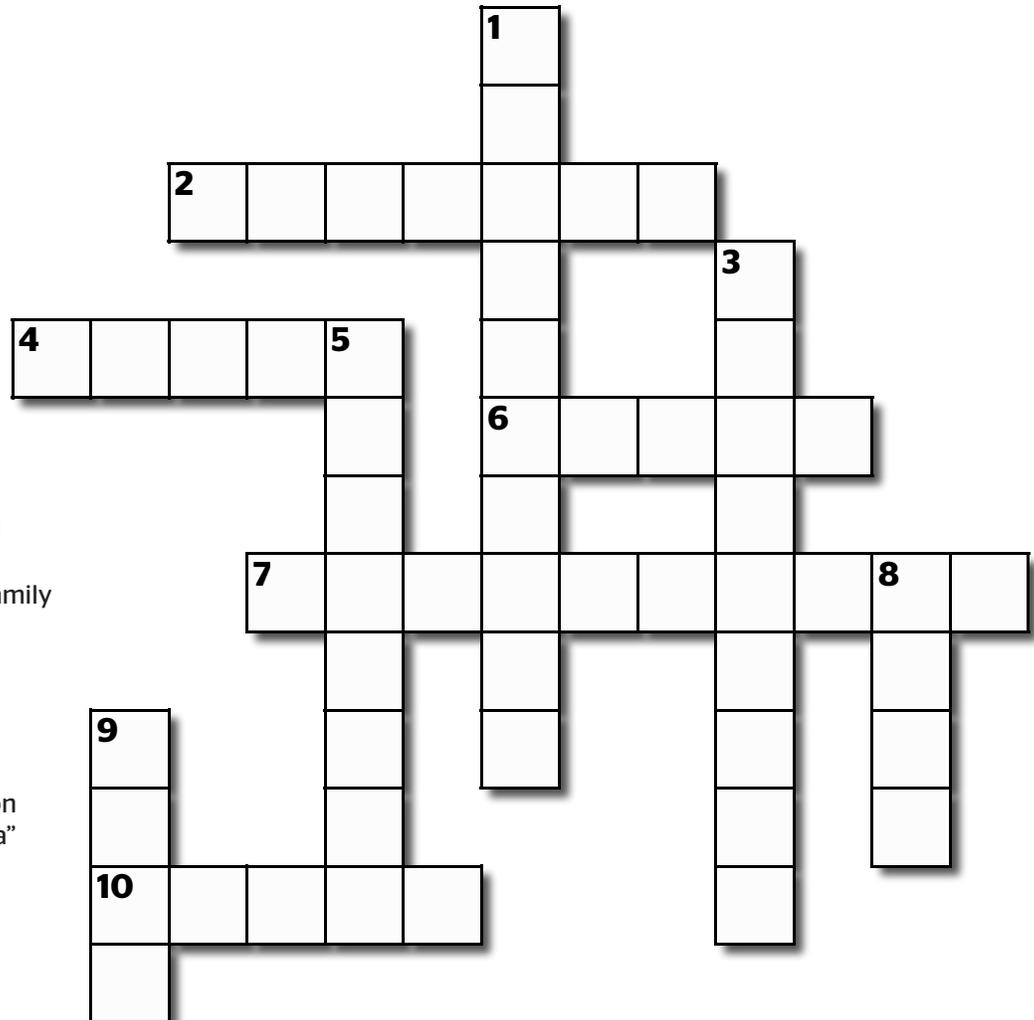
If you cannot hear signals, there may be nothing wrong with your receiver or antenna; check if fadeout has occurred: <http://www.solarham.net/xray.htm>

Ronald Klock, K3SEW, and Barry Siegfried, K2MF, via Dean Davis, N7XG



An Eyeball-Themed Crossword Puzzle

By WO4H

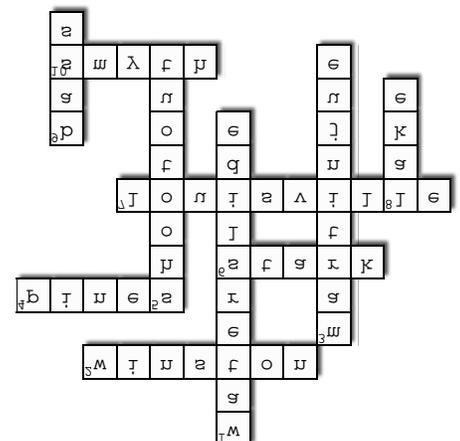


Across

- 2. County of Churchill
- 4. Tiak
- 6. resort's founding family
- 7. slugger
- 10. MFJ's hotel home

Down

- 1. wet chute
- 3. K5FLU
- 5. ten paces, high noon
- 8. in Choctaw, "okhvta"
- 9. small mouth



An Eyeball-Themed Word Search Puzzle by AG5T

P J S O W B D S B D G G P V R G D T
X O Q D Y I H P E N E Z R K K J N M
N U R K N O Z F F U L B V U N O E L
N R J T O E M M Q O I E E D R L E K
M I T T A C I W X R B Z Q F W V R X
Q E O X M B Y R L G O S R P A H M O
L U K U B B L L F P M E G R J F D F
T L L A B E Y E U M T J T O O K Y W
R S X K L Y S Y P A P R I Z E S C Z
D K S L U B W A W C G J P Y L A A J
K L O U I S V I L L E F I F L N B I
J A T N M Q C B V R G M Y L I T I B
K Q G M S M O E W Q O E H M A E N Z
R O C C I Y E P U S Q F F B C N S K
P R S F X O T R P P G V A N Z N H D
C U S T E N Q U B G C E H T G A W C
R P P R S G S J U X K O N J O S V U
H L J B F Y K I M C D U C M V R A G

ANTENNAS

BINGO

CABIN

CAMPGROUND

EYEBALL

FRIENDS

LAKE

LOUISVILLE

MFJ

MOBILE

NETS

PORTABLE

PRIZES

SHOOTOUT

SUMMER

TRAVEL

WATERFRONT

Will You Share Your Story?

This newsletter is your chance to share news, information, and perspectives about the club, its activities, and its members.

Did you think of something that you want to share with fellow members? Know a fellow member who could use assistance? Think of a column or tutorial that would be useful for others to see? Drop me a line.

Your material doesn't have to be polished. That's what I'm here for: To make what you have to say shine.

And if you send a high-resolution photo, you'll even get a free WSJ-style stipple hedcut portrait next to your name in print, like Ben on page 3.

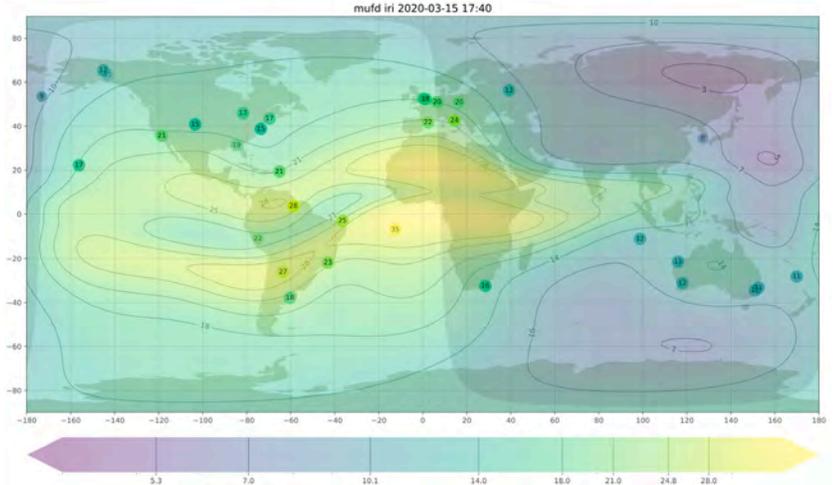
Send your words and pictures to wo4h@gmx.com.

John Zuwasti Curran, WO4H,
Centurion Editor

Eyewitness

While some call CQ to determine propagation conditions, others turn to maps that render the invisible visible

On hfpropagation.com, they have maps for different bands and places around the world. Right-click any map to get an enlarged view. I wish I had known about this two weeks ago during the terrific CW contest. Another source for high-resolution maps is <http://prop.kc2g.com>. Story by Peter Summers, N2XTT. Image courtesy KC2G.



Coronavirus Won't Stop This Ham Professor From Teaching His Class

Centurion Editor

[Editor's note: The following message was sent this week by a professor to his class at University of California, Berkeley. The subject of his email was "Online Discussions and Office Hours."]

Hi all,

As you probably already anticipated, I will move my discussion sections and office hours online, starting tomorrow. I'm sure your biggest concern right now is how we can continue to have class. Don't worry — I am prepared:

The default method we'll use is Zoom — you'll have to download the client at <https://zoom.us>. I will post the data you need to join the meeting on bcourses.

In case Zoom doesn't work

for some reason (e.g. because the service is overloaded), we will use Google Meet. If that happens, I'll announce it beforehand. If you don't use an @berkeley.edu email address, I will have to invite you individually, so keep that in mind.

If Google Meet also doesn't work anymore, I'll use a site called <https://explaineverything.com>, which is hosted AWS. You'll be able to see a whiteboard and talk to me directly in your web browser, but there's no video.

In case that also ceases to work, we'll have audio-only discussion sections on my mumble server. I will send the details when it comes to that.

In the case of bigger infrastructure disruptions (like a large scale power outage), we're going to have sections using amateur radio: I will use the

Mt Diablo repeater station at 147.060 MHz with a PL tone of 100 Hz. My call sign is KN6CDY.

In case the Bay area becomes uninhabitable, I will move to the wilderness. I plan to still be reachable via APRS, but we'll probably have to move sections to shortwave. In that case, we'll use CW transmission, so practice your Morse code.

Note that a nuclear attack in the upper atmosphere can create very strong electromagnetic fields, so if you want to prepare for that, either use vacuum tube based radios, or store them in a Faraday cage. I hope this assures you that no matter what happens this semester, I will not let it prevent you from learning quantum mechanics.

Best wishes,
Christian