

CLALLAM COUNTY  
AMATEUR RADIO  
CLUB

QTC  
MARCH 14

# AMATEUR RADIO LICENSE CLASS

Date: April 5, 12, and 19

Time: 0900 to 1700

PA Fire Department 5th and Laurel Street

EXAM: April 19, 2014 at 1300

Anyone interested in earning their entry level, (Technician class) Amateur radio license or the Intermediate level (General Class) is invited to attend three classes on successive Saturdays, starting Saturday, April 5, 12, 19, in the training room at Port Angeles Fire Department 5th and Laurel Street. The classes will run from 0900 to 1700 with an hour off for lunch. April 19 is a class/review in the morning.

The examination session is at 1300L.

Candidates will learn Rules and Regulations, Basic Electronics, How to Operate, and Radio Frequency Safety.

There is no cost for the class, which is presented by volunteers from Clallam County Amateur Radio Club.

Candidates must purchase an American Radio Relay League Technician or General License Manual at a cost of \$29.95 each. Direct at <http://www.arrl.org/arrl-store/> These manuals are also available from Dennis Tilton, who may be reached at

360-452-1217. (Save on shipping costs!)

The exam session cost is \$15.00 for processing.

Those earning their FCC license will be allowed to communicate with other hams world wide, and to participate in the Amateur Radio Emergency Services locally.

For more information, or to register for the class, call Chuck Jones, N7BV, at 452-4672 or Dennis Tilton AD7TV, at 452-1217.





## Free Citizens Preparedness Training

FEMA Certified Instructors lead this 22 hour training  
**March 15, 22, and April 5, 2014**  
 8:30am - 4:30pm  
**Sequim Transit Center**

Sponsored by FEMA and the Clallam County Sheriff's Office - Emergency Management

Registration with CC Emergency management  
 Jayme Wisecup 360-417-2525, or  
[jwisecup@co.clallam.wa.us](mailto:jwisecup@co.clallam.wa.us)

- ◆ Disaster Preparedness
- ◆ Light Search and Rescue
- ◆ Medical Triage
- ◆ Fire Suppression
- ◆ Communications
- ◆ Incident Command System

### Building Community Response Teams for Clallam County

## NEWS FROM THE CC-ARES

By Bill Carter  
 Emergency Coordinator

There was a team established between the Club and ARES to improve the communication with the Forks area. Nothing hard has been established but we're working on it. Lots of red tape and we're trying to keep any increase in annual fees to a minimum.

We continue to push the Ham Club's licensing classes. Chuck N7BV and I will be giving a presentation to a group of Senior Care Providers on March 12th. We have a Drill coming up on the 29th of March. We'll have at least one phone tree drill before that. The phone tree system is new and aimed at no missed members. We're aiming high and trying for the best.

Membership has increased by four members during the last month. We also saw a couple of faces at the ARES meeting we haven't seen in a while. If you have any questions about ARES then call me or eMail me at [mycall@yahoo.com](mailto:mycall@yahoo.com).

73, Bill Carter, W7WEC

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**FOR SALE OR TRADE**  
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**72' Tri-Ex crank-up tilt-over tower.**  
 Very sturdy.

**Hy-Gain Tailtwister rotator. Untested.**  
**Cubex cubical quad antenna for 10, 15, and 20M. Needs minor work.**

**All is standing in Forks. Pictures available.**  
**You take down and take away.**  
**\$3,000 for all.**

**Also Collins S-Line available for pickup in Salem, OR. \$2,500.**  
**Dave, KE7WGR [elorig1@gmail.com](mailto:elorig1@gmail.com)**

## 2 METER NETS

**CCARC :**  
 Every Thursday 7:00 pm on the W7FEL Repeater.

**ARES/RACES:**  
 Every Tuesday except 1st Tuesday of the month at 7:00 pm on W7FEL Repeater.

W7FEL Repeater: 146.76 MHz., offset down 600 KHz. with a tone of 100 Hz.

## W1AW comes to Western Washington

W1AW is the amateur radio callsign and the primary operating station of the American Radio Relay League (ARRL). This station, commonly called the Hiram Percy Maxim Memorial Station, is located on the grounds of ARRL Headquarters in Newington, Connecticut. It was inspired by Maxim's 1AW call-sign.

To help celebrate 100 years there is the ARRL Centennial QSO Party a year-long operating event in which W1AW operates portable in each state and most territories. Western Washington's turn was the week beginning on February 26th.

Originally I tried to reserve times on a weekend but others had reserved the callsign for use during contests. As this operation was being coordinated and run by the Western Washington DX Club (which is also a contesting club) there was nothing I could do except put in for some left over time on a weekday. KQ7W, Matt called me on the morning of February 27th asking if he/we could operate the WARC Bands (30m, 17m, 12m). After getting the OK, Matt headed up this way from Port Orchard. While he was driving I began to setup the software, find out which antennas loaded best on the WARC bands, etc. At 1615L we started CQ'ing W1AW/7 on 30m and 17m bands soon we had huge pileups and were running stations at rates over 100 contacts (Q's) an hour. We stopped at 2300L and began again at 0600L. There were 1613 CW and 668 SSB contacts for a total of 2,281 for 19hrs of operating at 116 Q's per hour.

On Monday, the day I had signed up for CW, Jim K7WA, Rob K7JQ trekked over from North Seattle and Mark K7NEW from Sequim assembled to begin CW operations at 0800L. Mark and I held the fort until the others arrived. That began a solid day of CW, ending with a total of 1452 Q's for 11.45 hours at 124 Q's per hour.

After the guys had left for home I received an Email from the coordinator who asked if I would do another day of WARC bands as they were receiving requests for CW-WARC. After calling Matt KQ7W and Mark K7NEW to see if they were available the next day I said yes. So on Tuesday we started at 0900L and quit at 1559L (end of WA period). Our total was 1226 Q's for 6.75 hours or 182 Q's an hour.

We all had a blast Jim, K7WA, Matt KQ7W, and I had experience operating from overseas, thus the pileups were what we expected. For some of the others they were monsters that needed slaying.

Chuck N7BV

Here in the Northwest we have a yearly conference that brings together speakers on the latest topics in the digital ham radio scene. We are now in our 7th year and we are looking to put the word out to all hams who are interested in attending. The date is March 29th and the link to our conference site is [www.microhams.com/mhdc](http://www.microhams.com/mhdc) .

Here are some of the topics we have covered in past years:

- HamWan: a megabit wide-area-network for hams here in the Puget Sound area
- Northwest Digital Radio: News on the upcoming UDRX-440, a 25w 70cm universal digital radio
- Ward Cunningham K9OX: How the Wiki philosophy grew from ham radio
- Lyle Johnson KK7P of Elecraft: SDR for beginners

The current (2014) speaker list for this year can be found at <http://blog.microhams.com/> . Its shaping up to be another great conference!

Please visit our web site link above and register now to attend. Also pass this info on to other amateurs in the Northwest who are interested in the leading edge of amateur digital communications.

Best Regards and 73's

Phil Moscinski N2EU

President, MicroHAMS Amateur Radio Club, Redmond, WA

Here is the latest on our present solar cycle.

NOTE: "The Spring Equinox is only two weeks away! Hope for continued high solar activity here at the peak of the cycle. Plenty of great 10 meter propagation is in store."

ZCZC AP10 QST de W1AW

Propagation Forecast Bulletin 10 ARLP010 From Tad Cook, K7RA Seattle, WA

March 7, 2014 To all radio amateurs

SB PROP ARL AR LP010

ARLP010 Propagation de K7RA

Average daily sunspot numbers were up for the recent reporting period (February 27 through March 5) and average daily solar flux decreased slightly, compared to the previous seven days. Average daily sunspot numbers increased nearly 29 points to 202.4, and average daily solar flux was off a little more than four points to 162.9.

The latest predictions for solar flux over the near term have steadily declined over the past ten days. The predicted average solar flux for the ten day period between March 7-16 was 161.5 in the February 25 forecast, 156 in the March 1 outlook, 138.5 on March 3, 135.5 on March 5, and 132 on March 6. Predicted solar flux is 145 on March 7, 135 and 130 on March 8-9, 125 on March 10-11, 130 on March 12, 135 on March 13-14, 130 on March 15-17, 135 on March 18-20, 145 on March 21, 155 on March 22-24, and peaking at just 160 on March 25-27. It then declines to a low of 120 on April 11-13. Predicted planetary A index is 5 on March 7, 12 on March 8, 10 on March 9-10, 8 on March 11, and 5 on March 12 through April 4.

F.K. Janda, OK1HH predicts quiet geomagnetic conditions on March 7, mostly quiet March 8-9, quiet to active March 10, quiet to unsettled March 11, mostly quiet March 12, quiet March 13-14, mostly quiet March 15, active to disturbed March 16-17, mostly quiet March 18, active to disturbed March 19, quiet to unsettled March 20-21, quiet to active March 22, quiet March 23-24, quiet to active March 25, quiet March 26, quiet to active March 27, and mostly quiet March 28 through April 1.

NASA has a new prediction for the current solar cycle, slightly revised from a month earlier. The current version updated March 3, 2014 is here: <http://solarscience.msfc.nasa.gov/predict.shtml>

The revision is a smoothed sunspot peak of 69 late last summer (2013) from 67 earlier in the same summer in the report a month earlier.

These numbers are only recently known because the smoothed sunspot number uses a whole year of



data. If activity continues to increase, then it will drag this smoothed maximum further out, perhaps to early this year. But there definitely is a strong second peak happening now, stronger than the first.

The average of daily sunspot numbers for February 2014 was the highest of the current solar cycle at 174.6. In fact, the last time it was higher was the month of September 2002, when it was 206.4.

We've been running our own smoothed 3-month moving average of sunspot numbers, and now that February is over we know the average for the three months centered on January 2014: 138.5. This is also a high for this solar cycle. You may recall that this cycle seemed to have an earlier peak based on this moving average toward the end of 2011, when the averages centered on September through December 2011 were 98.6, 118.8, 118.6 and 110. Compare that to this most recent peak, with these 3 month averages centered on August 2013 through January 2014: 77.4, 91.2, 102.9, 123.7, 123.3, and 138.5 mentioned earlier.

Here is an article from a reliable source noting this second peak is larger than the first, and that this slow cycle may have a much broader peak than earlier cycles:

<http://sidc.oma.be/news/240/welcome.html>

We got a late report on 6 meter propagation from Fred Honnold, KH7Y, who is on the south side of Hawaii's big island, which of course, is the island of Hawaii.

He sent this a week ago, February 28, after this bulletin was put to bed:

"Good morning from Hawaii. Forgot to send this on Monday to you. Sunday morning (February 23) at about 1830 I worked A45XR and EA8DBM on 6 meters CW. There was a good opening to HK and CE, and at the time my antenna was pointed about 120 degrees. I was calling CQ on 50.105, a W4 answered me and also a very weak signal behind the W4. I worked the 4 and kept hearing A so I thought it might be a AC or something like that, but he came out of the noise and it was A45XR (Oman, at the mouth of the Persian Gulf) a rare catch for me. His signals built to 529 on CW and then he asked for SSB and we made the QSO. Chris, A45XR was using a 30 meter delta loop with very high SWR so he could only run 100 watts. About a half hour later was called by EA8DBM with 559 signals looking the same direction. I talked to Jim, K6MIO about the QSOs and he told me they were TPL, transpolar long path. It really did not make much difference where I pointed the antennas, a pair of 8 elements. A45XR was also in Monday the February 24 and was much stronger as he put his 6 meter delta loop up. He also was in Tuesday morning 0830 very weak. Yesterday was a bust on 6 meters one strong DU and two JAs worked on back scatter looking to VK (245 deg)."

Log into QRZ.com and look at the great location and antennas at KH7Y: <http://www.qrz.com/db/KH7Y>, and also to <http://www.qrz.com/db/A45XR> for A45XR and his 30 meter delta loop.

Jon Jones, N0JK notes that on February 27 at 2250 UTC NOLL in EM09 spotted KC0CF in EN32, via aurora on 6 meters.

An article about a solar region circling the Sun three times can be found on the web at:

<http://www.spacedaily.com/reports/>

[Coming\\_Around\\_Again\\_Giant\\_Sunspot\\_Makes\\_Third\\_Trip\\_Across\\_the\\_Sun\\_999.html](http://www.spacedaily.com/reports/Coming_Around_Again_Giant_Sunspot_Makes_Third_Trip_Across_the_Sun_999.html).

The Spring Equinox is only two weeks away! Hope for continued high solar activity here at the peak of the cycle. Plenty of great 10 meter propagation is in store.

If you would like to make a comment or have a tip for our readers, email the author at [k7ra@arrl.net](mailto:k7ra@arrl.net).

For more information concerning radio propagation, see the ARRL Technical Information Service web page at <http://arrl.org/propagation-of-rf-signals>.

For an explanation of the numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere>. An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/>.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrl.org/propagation>.

Sunspot numbers for February 27 through March 5 were 227, 279, 177, 170, 191, 171, and 202, with a mean of 202.4. 10.7 cm flux was 175.7, 170.6, 164.6, 161.3, 161, 158, and 149.1, with a mean of 162.9. Estimated planetary A indices were 24, 13, 7, 5, 7, 8, and 7, with a mean of 10.1. Estimated mid-latitude A indices were 15, 10, 6, 3, 6, 8, and 6, with a mean of 7.7.

### CCARC Committees

**Activities Chair:** Nita Lyman KE7DRT  
**Education and Training:** Chuck Jones N7BV  
**Field Day Co-Chairs:** Al Fisk KD7TFK, Vacant  
**Health and Welfare:** Becky Winters W7RJW  
**Membership Chair:** Becky Winters W7RJW  
**Net Coordinator:** Mike Rice KF7VZZ  
**Program Co-Chairs:** Janet Parris WA7JEP, Bill Carter W7WEC, Chuck Jones N7BV, Becky Winters W7RJW  
**Public Relations Chair:** Bill McPherson W6JEQ  
**Publications (Newsletter):** Chuck Jones N7BV, Jeramey Johnson KF7PMC, Mike Rice KF7VZZ  
**Technical Committee:** Ernie Griffith W7EWG, Mark Merrikin AE7IP, Doug Welcker, WB4KGY  
**Web Site Administrator:** Rik Scairpon WX7RIK

### General Meeting Minutes February 12 2014

1910 Meeting call to order my Mike Rice, president. Pledge of allegiance was honored, then introductions all around.  
 General minutes for January 2014 approved  
 Review on the Board meeting.  
 Presentation, Nita KE7DRT Emergency Grab and Go Kits.  
 2019 Coffee Break Nita ran the raffle.  
 2040 Meeting called to order again.  
 Officer and Committee Reports  
 2108 Members voted "to loan the Amp, donated by W7VV and refurbished by W7TTY, to a member for a year.  
 2109 Meeting adjourned.

### CCARC 2014 Net Control Operator Schedule

Jan		Jul	
2	KG7FRN	3	W7RJW
9	N7BV	10	N7BV
16	K7RGR	17	W7YLV
23	KE7DRT	24	KE7DRT
30	WA7JEP	31	KF7VZZ
Feb		Aug	
6	W7RJW	7	W7RJW
13	K7RGR	14	K7RGR
20	N7BV	21	W7WEC
27	KF7VZZ	28	KF7VZZ
Mar		Sep	
6	KG7FRN	4	W7RJW
13	K7RGR	11	N7BV
20	W7YLV	18	KE7DRT
27	KF7VZZ	25	KF7VZZ
Apr		Oct	
3	W7RJW	2	W7RJW
10	N7BV	9	N7BV
17	KE7DRT	16	W6JEQ
24	KF7VZZ	23	K7RGR
May		30	KF7VZZ
1	W7RJW	Nov	
8	K7RGR	6	W7RJW
15	W7WEC	13	N7BV
22	KE7DRT	20	KE7DRT
29	KF7VZZ	27	KF7VZZ
Jun		Dec	
5	W7RJW	4	W7RJW
12	N7BV	11	K7RGR
19	W6JEQ	18	N7BV
26	KF7VZZ	25	KF7VZZ
REVISED Dec 30 2013			
Questions? Contact Mike KF7VZZ			

## WARC bands

From Wikipedia, the free encyclopedia

The WARC bands are three portions of the shortwave radio spectrum used by licensed and/or certified amateur radio operators. They consist of 30 meters (10.100–10.150 MHz), 17 meters (18.068–18.168 MHz) and 12 meters (24.890–24.990 MHz). They were named after the World Administrative Radio Conference, which in 1979 created a world-wide allocation of these bands for amateur use. The bands were opened for use in the early 1980s. Due to their relatively small bandwidth of 100 kHz or less, there is a sort of gentlemen's agreement that the WARC bands may not be used for general contesting. This agreement has been codified in official recommendations, such as the IARU Region 1 HF Manager's Handbook, which states:

Contest activity shall not take place on the 10, 18 and 24 MHz bands.

Non-contesting radio amateurs are recommended to use the contest-free HF bands (30, 17 and 12m) during the largest international contests. (DV05\_C4\_Rev\_07)

Throughout most of the world, the 30 meter band cannot be used for phone communications except in emergency situations. However, part of Region 1 (Africa, south of the equator, during daylight hours) is permitted to use phone. The USA limits amateur radio users to 200 watts peak envelope power on this band.

## CLALLAM COUNTY AMATEUR RADIO CLUB REPORTS

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### FROM OUR TREASURER:

The bank balance as of Feb 28,2014

Bank Savings 8001.22  
Bank Checking 2242.11  
Outstanding Cheques: 0  
Total 10243.33

Thanks,  
Ernie Griffith  
W7EWG  
CC-ARC Treasurer

## CLUB OFFICERS For 2013

**President:** Mike Rice KF7VZZ

360-912-2395 kf7vzz@gmail.com

**Vice President:** Rebecca Winters W7RJW

(360) 928-0127 w7rjw@yahoo.com

**Secretary:** Chuck Jones N7BV

(360) 452-4672 n7bv@yahoo.com

**Treasurer:** Ernie Griffith W7EWG

(360) 808-6668 w7ewg@arrl.net

**Board Member (Chairman):** Dennis Tilton AD7TV

360-452-1217 3tiltons@wavecable.com

**Board Member:** Bill McPherson W6JEQ

360-808-2069 dezertrat@wavecable.com

**Board Member:** Bruce Thompson W7DNA

(360) 457-6134 bgt@olympen.com

**The YL Luncheon this week  
is at  
Fiesta Jalisco  
636 E. Front St.  
Port Angeles  
11:30 am, 14 March**

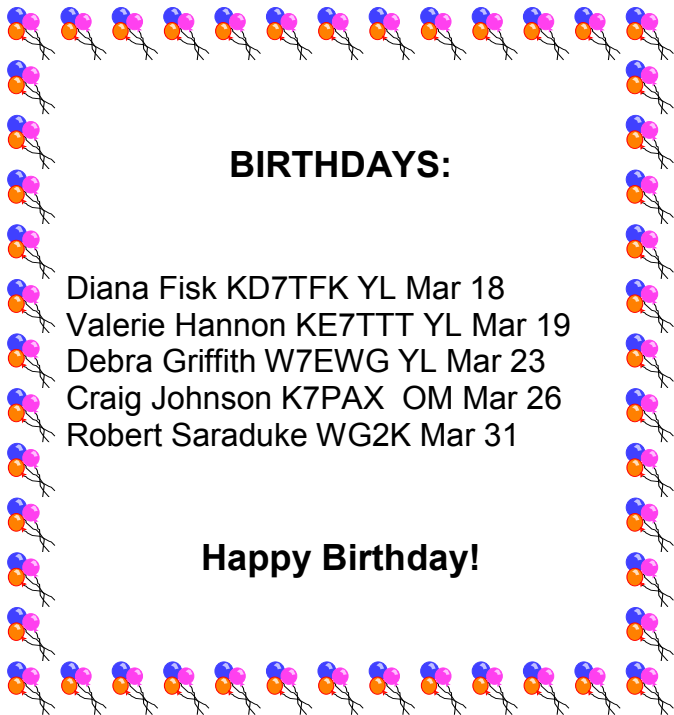
**Find us on the web at  
www.olyham.net  
Check it out. Lots of  
information about ham radio  
in Clallam County!**

**2014 YL Luncheons:**

Are the 2nd Friday of the month  
at 11:30

March 14    April 11  
May 09        Jun 13  
July 11        August 8  
September 12    October 10  
November 14    December 12

| Description                                        | Time/Date                       | Location                                                          | Contact                          |
|----------------------------------------------------|---------------------------------|-------------------------------------------------------------------|----------------------------------|
| Clallam County ARES/RACES meeting                  | 7 pm, first Tue of every month  | Clallam County Courthouse EOC,<br>223 E. 4 <sup>th</sup> St., PA  | Al Dawson W7YLV<br>360-457-0752  |
| Clallam County Amateur Radio Club general meeting  | 7 pm, second Wed of every month | Port Angeles Fire Station<br>5 <sup>th</sup> & Laurel Streets, PA | Chuck Jones N7BV<br>360-452-4672 |
| Clallam County Amateur Radio Club social breakfast | 8 am, first Sat of every month  | Joshua's Restaurant<br>Hwy. 101 & Del Guzzi Dr.                   | Chuck Jones N7BV<br>360-452-4672 |
| Clallam County Amateur Radio Club YL social lunch  | 11:45 am 2d Fri of every month  | Rotates - announced on Thursday<br>night Net                      |                                  |



**BIRTHDAYS:**

- Diana Fisk KD7TFK YL Mar 18
- Valerie Hannon KE7TTT YL Mar 19
- Debra Griffith W7EWG YL Mar 23
- Craig Johnson K7PAX OM Mar 26
- Robert Saraduke WG2K Mar 31

**Happy Birthday!**

**NEWS FROM THE CC-ARES**

By Bill Carter  
*Emergency Coordinator*

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73, Bill Carter, W7WEC