



# The Feedline

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## CHECK STOCKS AND RESET CLOCKS

### STD TIME IS HERE

The switch back to Standard Time on Sunday, Nov. 3, is the perfect opportunity for all of us to check our family emergency stockpiles, change batteries in radios, replace expired food items, rotate items in the kit, update family information, or determine if there are any items that are missing.

An emergency preparedness kit is a first step to ensure families and businesses can sustain themselves in the event of an illness outbreak or a natural disaster.



Family emergency supplies can be contained in a new, large trashcan, a backpack or a suitcase and can be assembled over several months by adding just one or two items to a grocery list.

A kit should include food, water, a first aid kit, tools, copies of important documents, clothing and bedding, medications, and pet supplies.

A household preparedness kit should include enough supplies to sustain everyone in the household for up to three weeks.



**TIPS FOR CREATING A family ACTIVITY TO-GO KIT!**

@flwifhouting.com

The health department's **minimum** recommendations for a family emergency preparedness kit include:

- Prescription and over-the-counter medications
- Toiletries, including soap
- First-aid kit
- Baby formula and diapers
- Extra eyeglasses
- Pet food/and medications/leashes/collars/ID tags
- Extra batteries for flashlight(s) and radio(s)
- Garbage bags
- Cash
- Non-perishable food, ready-to-eat canned meats, soups, fruits, vegetables, peanut butter, protein bars, utensils, can openers, sterno heating.

One gallon of water per person per day and fluids with electrolytes that will last for up to two weeks.

Copies of important papers and your ID's.

Do I also need to mention that you should take your radio(s) along? Probably not.



If you need some recommendations on what to put in a Go-Kit (or Git-Kit as they say down South) you should point your browser to: <http://www.ready.gov/build-a-kit> and read the informative articles with all the details on Go-Kit contents.

Do check out some Datrex bars. They are very tasty, (think coconut flavor) high in calories (you need that during an emer-





## THE SOLAR CYCLE

As almost every ham knows, the number of sunspots rises and falls in a regular cycle that repeats every 11 years, but there's a lot more to the story.

Sunspots are among the least dramatic activities in a solar cycle. This is because they are easy to count and closely correlated with flares and other indications of solar activity. As such astronomers and scientists have used them for centuries to monitor variations in the sun's activity.

But it is Solar Flares and Coronal Mass Ejections that pose the biggest risk to power grids and communications systems here on Earth. These take place when billions of tones of solar plasma erupt from the surface of the sun and are flung out into space at speeds up to millions of miles per second.

Variations in the amount of heat and light reaching the Earth's surface as a result of the changes in the 11 year cycle are tiny. Total solar output reaching the surface varies by just 1.3 Watts per square meter or 1/10th of 1percent between the maximum and minimum phases of a solar cycle. However some researchers say that even this miniscule variation has profound impacts on climate and weather. They note that rainfall, cloud formation and river run-off are all strongly correlated with the sun's 11-year cycle.

The impact is actually far smaller than the warming associated with other sources of climate change. One thing that solar activity cannot explain are long-term trends in global temperatures such as those associated with global warming. That said there are some researchers believe that it may have a noticeable impact over shorter timescales.

## CONGRESSIONAL IMPASSE SETTLED - FCC REOPENS

The House and Senate votes on Wednesday, night October 16th to at least temporarily restore all government operations until January 15th and permit the US Treasury to extend its debt ceiling limit through February 7th have passed and been signed into law by the president. This means that the FCC and other government agencies should now be getting back to work, but that does not mean things will be back as they were before the partial government shutdown began.

Even though the FCC is technically back in operation, you have to remember that matters concerning services such as CB radio, the Mult-Use or MURS Radio Service, GMRS and even Amateur Radio are going to take a back seat to more important subjects. This includes but is not limited to broadband expansion and broadcast related issues.

While the good news is that the stalemate is over for now, it could take a bit more time before the FCC takes any matter under advisement that is important to ham radio such as several requests for rule making from the ARRL. And as you will hear in a few moments, the FCC could even face a paperwork deluge of monumental proportions in the coming days.

So for now the two key words are "be patient." Be prepared. It will probably happen again after the first of the year.



## LAST MINUTE DX

Part of the WW DX team will travel through the Pacific. During this trip the Team will be active during the period from Nov. 2014 - April 2015. More news will be coming in Dec. 2013. This year their team consists of: Hrane (YT1AD), David (WD5COV), Wasiliy (RW4NW), Sergey (RZ3FW) and Dragos (YU1AKV). See the sked below:

**November 13th-15th KH6. We will try to work with our USA CALL's:**

YT1AD-KH6/N9YU  
WD5COV-KH6/WD5COV  
RZ3FW-KH6/N7AFW  
QSL home CALL's

**November 16-17th Samoa and activity will be with:**

YT1AD-5W7A or 5W6A  
WD5COV-5W0OV  
RZ3FW-5W0FW  
RW4NW-5W0NW  
QSL home CALL's

**November 18-19th American Samoa and activity will be with:**

YT1AD-KH8/N9YU  
WD5COV-KH8/WD5COV  
RZ3FW-KH8/N7AFW  
QSL home CALL's

**November 20-22th and Novemer 29 till December 4th 2013 Fiji and activity will be with:**

YT1AD-3D2AD  
WD5COV-3D2OV  
RZ3FW-3D2FW  
RW4NW-3D2NW  
QSL home CALL's

**November 22-29th Fiji, Rotuma Island and activity will be with:**

CALL: 3D2R  
QSL via YT1AD.

73

Hrane (YT1AD) and Acim (YT3W)

# AREA NETS

## SUNDAY

Massillon Radio Net	CW	7:30 PM 3599.5 LSB
		8:30 PM During EDT
		7:30 PM During EST

## MONDAY

Cuyahoga Falls ARC	FM	8:30 PM 147.270
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## TUESDAY

Stark County ARES Net	FM	7:00 PM 147.120
(Last Tuesday of the Month for the Homeland Security Net)		
Homeland Security Net	FM	8:00 PM 147.51 (Simplex)

Massillon Radio Net	CW	7:30 PM 3599.5
		8:30 PM During EDT
		7:30 PM During EST

## WEDNESDAY

## THURSDAY

Goodyear Amateur Radio Club	FM	7:30 PM 146.985
Alliance ARC Nets	CW	8:00 PM on 28.400
	SSB	8:30 PM on 28.400
	FM	9:00 PM on 145.370
Lake Erie ARA	FM	8:00 PM 146.760
Portage County Amateur Radio Service	FM	8:00 PM 146.895
West Stark Info Net	FM	8:00 PM 147.180
Wooster Amateur Radio DX Group	FM	8:00 PM 147.345
		(PL=110.9)
Massillon Radio Net	CW	7:30 PM 3599.5
		8:30 PM During EDT
		7:30 PM During EST

## FRIDAY

(Except for the first Friday of the month.)

West Stark County Info Net	FM	8:00 PM 147.180
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## DAILY (or Almost)

Silvercreek ARA Barometer Net	FM	7:30 AM 147.390
		PL=114.8

The above net does not roll on Sunday.



# THE DX ZONE

K7ZO will be active from Nicaragua during the CQ World Wide DX SSB Contest from October 26 to the 27th as a Single-Operator All-Band entry using the callsign YN5Z. QSL to K7ZO direct, via the bureau or electronically using Logbook of the World.

DJ7RJ will be on Reunion Island signing stroke FR until November 2nd. Listen out for him on 160 through 10 meters SSB and CW with a focus on the lower bands. QSL via DJ7RJ either direct or via the bureau.

WP3A will be active as ED8P from Santa Cruz de Tenerife in the Canary Islands also during the CQ World Wide DX SSB Contest. He will enter as a Single-Operator, 15 meter Single Band Low Power Assisted entry. His QSL's go via NP3O.

DL4VM will be operating stroke OZ when he returns back North Jutland. He will be there through October 19th. QSL via either direct or via the bureau.

DK8LRF is reportedly operational from Columbia as HK3JCL through November 23rd. His activity will mostly be on 20 and 40 meters using SSB. QSL to his home callsign via the bureau.

CT2HPM is once again on the air from Angola operating as D2CT. He plans to be there through November the 15th operating PSK31 and RTTY on 20 through 10 meters including the WARC bands. QSL via CT2HPM.

W1CDC will be operational from Guyana as 8R1A between October 13th and November 1st. Activity will be holiday style on 80 through 10 meters using CW and SSB. QSL via his home callsign, direct or by the bureau.

YB9WZJ and YD9RQX will be active using their home calls stroke P from Waigeo Island between October 16th and the 22nd. Operations will be on 40, 20 and 15 meters using SSB only. QSL only via their home callsigns.

The Andorran Amateur Radio Union will again be active as C37NL from Andorra during the CQWW DX SSB Contest. The dates are October 26th and the 27th. QSL via C37URA.

N0HJZ, will be active as C6ARW from Grand Bahama Island between October 22nd to the 29th. Operations will be on 30, 17 and 12 meters using CW and RTTY. QSL via his home callsign, direct (with sufficient postage) or by the Bureau.

AA1AC will be on the air stroke 6W from La Somone, Senegal between December 8th and the 14th. No information on times or frequencies was given. QSL direct or by the Bureau to his home callsign.

RK4FF will be on the air as 6V7S from Senegal through November 27th. Activity is on 80 through 10 meters excluding the WARC bands using CW, SSB and RTTY. His log is available on ClubLog. QSL via RK4FF.

DF1YP is now active stroke FO from Moorea Island French Polynesia. He reportedly will be there until November 6th. His operation has been mainly on 20 meters using SSB. QSL via his home callsign.

G4IRN will be active as D44TWQ from Cape Verde between November 5th to the 12th. His operation will be holiday style on the 30, 17 and 12 meters and on CW only. QSL via his home callsign either direct or via the bureau. via his home call.

# DXPEDITIONS

## SAN ANDRES ISLAND DXPEDITION

Members of the 'DX Friends' will activate San Andres Island (NA-033) between November 1-10th. The current list of operators mentioned are Alberto/EA1SA, Toni/EA5RM (Team Leader), Roberto/EA2RY, Manolo/EA7AJR, Jose/EA7KW, Fabrizio/ IN3ZNR, Alain/F6ENO, Tony/F8ATS, Faber/HK6F, Bernard/F9IE, Roberto/HK3CW and Valery/RG8K. Activity will be on 160-6 meters using CW, SSB and RTTY.

Suggested frequencies are:

CW - 1824, 3524, 7004, 10104, 14024, 18074, 21024, 24894 and 28024 kHz

SSB - 1845, 3780, 7065/7160, 14195, 18145, 21295, 24945 and 28494 kHz

RTTY - 7035, 10140, 14080, 18100, 21080, 24921 and 28080 kHz

6m - 50105/CW and 50115/SSB

They will have at least 4 stations at the same time on different bands and modes. Equipment is an Elecraft K3 and 3 Icom IC-7000. Antennas are Hexbeams, SpiderBeam, Verticals (160/80/40/30m) and Yagi for 6 meters.

QSL via EA5RM direct (see their Web page). You can use the OQRS (see Web page) for direct and Bureau cards. More details should be forthcoming, especially their call sign.

Visit their Web page at: <http://www.dxfriends.com/SanAndres2013>

## JUAN FERNANDEZ ISLAND DXPEDITION

There are now less than 20 days to our departure. The Team will start from Italy, of the 6th of November, and we plan to be active on the late evening of November 8th (GMT). We will leave from Santiago, aboard two twin-engine Cessna and after about two hours, of adventurous flight, we land on the Juan Fernandez airport. We should be able to install 3 beams looking on the sea, two loops, one for 30 and one for 40 meters, other than the usual vertical for 80 and inverted L for 160. We will also be installing a Beverage of about 200 meters on the beach facing the sea.

We should have sporadic access to the Internet, and then try to send the logs to ClubLog, once a day. If for any reason this is not possible, do not panic, know that we will do so as soon as possible, and in any case the logs will be saved in 3 backup copies. As always, we ask you not to make dupes QSOs, in order to give the opportunity for everyone to contact us in various bands and modes.

You can follow XR0ZR Team on the following media links at:

Website : <http://www.juanfernandez2013.com>

FaceBook : <https://www.facebook.com/groups/xr0zr/>

Twitter : @xr0zr

I'm sure we'll all have fun together, and that we will have fun.  
73, Fabri (IW3SQY)

## THE DX ZONE, CONTINUED

N7OU will be operational from the South Cook Islands until 9th of November. He has reactivated his E51NOU callsign on all bands from 10 to 160 meters operating CW only. QSLs go via home call.

DL7AFS and J7ZG will be active as D44TXT from Ilha de Sao Tiago, until November 7th. They will be on the 80 through 10 meters using SSB, RTTY, PSK31 and PSK63. QSL via DL7AFS, either direct or via the bureau.

N0HJZ is active as C6ARW from Grand Bahama, through October 29th using on 30, 17 and 12 meters as well on CW and RTTY on other bands. QSL via N0HJZ, either direct or via bureau.

DH3WO announces that he will be operational from Lesotho as 7P8WO from December 22nd to the 24th. He plans to be active on all of the High Frequency bands though no operating times or frequencies have yet been announced. QSL's go via home call.

K4ZIN and N4WDT will be on the air from Sierra Leone from October 15th to the 22nd using the callsign 9L1JT. No operating times or modes were stated. QSL via K4ZIN.

SM1TDE is currently on the air from Uganda as 5X8A on High Frequency bands. No specific modes or operating times mentioned. QSL via his home call.

Five operators from Japan will be active from Grenada Island operating as J34J from November 20th to the 29th. Their operation will include the CQ World Wide DX CW Contest. If you make contact please QSL via JA1HGY

W9NJY will be active from Curacao from November 19th to the 25th signing stroke PJ2. He will be operational on 160 through 10 meters on CW only. QSL via WD9DZV either direct or electronically using Logbook of the World.

JA1FUF and JF1CCH will be on the air from Kiribati from November 28th to December 4th as T30NK and T30TS. Listen out for them on 40 through 6 meters using CW, SSB and PSK31. QSL each operator via his home call.

M1AYI will be active from Falkland Islands October 20 through November 19th as VP8DNY. He plans to be operational on all of the High Frequency bands on SSB only. QSL via his home call.

YL2GM is currently reported on the air from Sao Vicente Island as D44TYL. Activity has been mainly 20 and 15 meters SSB. The length of his stay is unknown. QSL via YL2GM.

HB9EYP will be on the air from Zanzibar between November 2nd and the 9th possibly using the call 5H3JJ. Activity will be QRP on 20 through 6 meters with 10 watts into a Windom antenna from a beachfront location. QSL via his home callsign either direct, via the bureau or electronically using Logbook to the World.

DL7VOA will be active as 6V7D from Senegal between November 29th and December 7th. His operation will be mainly on CW, with some SSB, on 40 through 10 meters. QSL via DL7VOA.

# MORE DXPEDITION INFO

## THREE HAMS TO THE BAHAMAS

Operators Tim N4UM (C6ARU), Mike K4RUM (C6AUM) and Bob N4BP (C6AKQ) will be operating from Freeport between November 19th and December 10th.

Look for C6AUM and C6AKQ to be active mainly on CW and on 160-10 meters including the 30/17/12 meter bands. C6ARU will be mainly on the Digital modes (some JT65 and JT9) on 30/17/12 meters bands.

During the CQWW DX CW Contest (November 23-24th), look for C6AUM to be active as a Single-Band 40m entry, and C6AKQ to be Single-Band 80m entry.

For the ARRL 160 Contest (December 6-8th), the trio will be a Multi-Single entry as C6AKQ.

QSL via operator's QRZ.com address

## T33A BANABA ISLAND TO BE ACTIVE NOV 5 - 18

Some breaking news from the world of DX. The T33A DXpedition to Banaba Island is fast approaching and is expected to be active from November 5th to the 18th.

It was reported on the T33A Blog Page on October 17th by co-team leader Jay Kobelin, W2IJ, that the container carrying the gear for the operation has departed Suva, Fiji and was now on its way by sea to Tarawa. Also that the operations advance team will arrive in Tarawa on October 31st to attend to picking up provisions as well as to get the container unsealed and cleared through customs. They will then make certain that it is loaded onto their vessel in preparation for a November 3rd departure to Banaba Island.

It was also mentioned that the T33A operations main sponsor is Elecraft, which is supplying six K3 Transceivers and five KPA-500 Amplifiers. Also that the T33A team will be using the DXA interface for their operation. DXA is an innovative Web site that allows DX'ers to view the status and activities of a DXpedition in near-real-time.

For more details about this DXpedition please visit [www.t33a.com](http://www.t33a.com). We will have more DX related news later on in this weeks report.

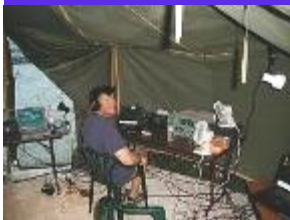
## AMSTERDAN ISLAND DXPEDITION

Stan, SQ8X, posted the following on October 17th, on the FT5ZM Web page.

"Since the early planning days of this DXpedition, we have been accumulating and storing equipment at our staging site in Atlanta, Georgia. On October 15th, our packing and organizing was completed, equipment was placed on pallets, loaded into our sea container, and began its journey to New Zealand where it will be loaded aboard our ship."

The photos will tell the story at:

<http://www.amsterdamdx.org/our-equipment-has-been-shipped>





# DXPEDITIONS, CONT'D

## SOUTH SUDAN DXPEDITION

A multinational group of Dietmar, DL3DXX; Wayne, N7NG; Hans, PB2T; Olli, OH0XX; Martti, OH2BH; Pertti, OH2PM; Veijo, OH6KN and Tevfik, TA1HZ (team doctor) will be in Juba, South Sudan from November 14 - 28, 2013 and will activate Z81X with an emphasis on low bands, 160m and 80m.

The period includes the CQWW CW contest with some single-band entries and low-band SSB focus during the contest weekend.

Hosted by the Ministry of Posts and Telecommunications, the group led by Hans, PB2T, President of IARU R1, will conduct a series of workshops and establish a sound amateur radio spectrum management regime and related regulations. It will also introduce Amateur Radio to the Ministry of Education. Also participating in these efforts are two local amateurs; Massimo, Z81B (IZ0EGB) and Diya, Z81D (YI1DZ). This part of the program is supported by Yasme Foundation Inc.

The plan is to activate three FTDx3000 stations with amps, low-band verticals and beverage antennas. Two different radio locations may be used. The operation will be generator based.

The Z81X team will use their QRZ.com pages for providing further updates and recognizing their supporters, with Vlad, UA6JD as their webmaster.

Z81X Project Goodwill South Sudan is organized jointly by Radio Arcala, DX University, IARU Region 1 and Rock City Investments Co., and the equipment sponsor is Yaesu Musen Co. Ltd of Japan.

In support of the DX University, we will take note of specific relationships between pileup behavior and operator technique. Additional information will be available before the expedition begins.

The highest cost item is equipment transport, with courier service the only reliable means of transportation. The group welcomes support from individuals, clubs and foundations to offset some of the high equipment transport expenses. You may contact any of the group members for your potential support or use PayPal at Z81X QRZ.com.

Z81X QSL via OH0XX

## AVES ISLAND DXPEDITION

The 4M5DX Group is organizing a DXpedition to take place from Aves Island (NA-020, DIV-001, WLOTA 0216) sometime between 1 November 2013 and 28 February 2014. Eleven operators from Venezuela, Argentina, Finland and Spain will be active as YW0A on 160-6 metres all modes.

# Communication Tip of the Month

"We deserve the reputation we've earned."

Take a moment to think about your reputation? What do you think is most commonly said about you behind your back? Are you known for your timely responsiveness? Or notorious for being late or perhaps not responding at all. Do people appreciate you for always following through with your commitments? Or are you seen as a "yes" person who rarely delivers? Perhaps you are admired for your openness and resiliency in tough conversations? Or viewed as being someone who is too reactive and defensive to approach safely.

In my work, it is quite common to come across people who are technically proficient at what they do, but so self-oriented that they are quite difficult to work with. Their earned reputation is "I'm right and I'm not going to do anything that doesn't suit me. If things don't go to my liking, I will make it difficult for everyone."

Perhaps the most damaging of all "self-earned reputations" is the unwillingness to take personal responsibility. These individuals are skillful at denial, self-justification and blame ... but it doesn't take long for co-workers to recognize that their colleague is someone who points the finger at others instead of taking their fair share of the responsibility. Besides being a real "trust buster", being unwilling to take personal responsibility has the added factor of blinding us from all the other ways we are undermining our own reputation.

Showing a lack of regard for other people's time, not being true to your word, being unusually reactive to feedback and not taking personal responsibility are all ways that talented people can earn reputations which cast them in a negative light. The good news is that people change their reputations every day and it isn't that hard to do.

Here are the steps for strengthening your reputation.

**Step One:** Stop saying the same old refrains.

I was late because of traffic. I couldn't get back to you because I got too busy. I lost my temper because you ... I get angry because I have higher standards than every around here. It wasn't me.

**Step Two:** Start incorporating the language of personal ownership.

I am sorry. I was at fault. I see my part in what happened. I can see what I need to do differently.

**Step Three:** Actively start making amends.

Arrive on time to meetings. Reply to emails within 24 hours. Make a commitment, and keep it. Learn how to self-manage your reactions.

Even if some people have decided that you will never change, my experience is that most people are open to thinking more favorably of people they are around everyday. After all, they have wanted to feel more comfortable working or living with you for a long time. Once they see that your efforts are more than a "flavor of the month" and are actually a growth in maturity, they will probably be quite appreciative and responsive.

Do you have a question for Patti? Send an email to [patti@pattilind.com](mailto:patti@pattilind.com) and it may be answered in next month's newsletter.



## SO. CHARLESTON STUDENTS TO LAUNCH SAT

The Miami Herald reports on the education work of radio amateurs Jeffrey Imel K9ESE and Joseph Oliver AA4KK. They are helping high school students to develop a balloon launched satellite.

Educators generally agree that hands-on activities are the best way to get kids interested in these disciplines, which are becoming increasingly important in the 21st century. Tiffany Grigsby, an 11th-grader who is working on the satellites, is one of the students who needs no convincing. She wants to go into aerospace or aeronautical engineering in college and maybe work for NASA. For her, the satellite project is the ideal science project.

"I love outer space," she said. "The unknown is so interesting. You don't know a lot about it, and I'm here to learn ... building a satellite is the perfect thing." Grigsby is a self-professed hands-on learner. She doubts she could learn how to build a satellite from a book, but she knows she'll emerge from this class with those skills. "And then it's not just that you know what's in there, it's that you understand what's in there."

Read the full story at:

<http://www.miamiherald.com/2013/10/23/3706377/south-charleston-high-students.html>

The class is using crowd sourcing to raise money to purchase equipment for the project.

To donate, visit: <http://indiegogo.com/projects/near-space-project>

## SERIOUS FLAW IN D-LINK ROUTERS

On October 18th the US-CERT (US Computer Emergency Response Team) announced it is aware of reports that the firmware for various D-Link routers contains a backdoor that allows unauthenticated remote users to bypass the routers' password authentication mechanism. An unauthenticated remote attacker can take any action as an administrator using the remote management web server.

You should address this immediately if you use a D-Link brand router. D-Link is maintaining a page to inform users of this issue and provide updates as patches are released. For more information, please see Vulnerability Note VU#248083.

## FREE E-BOOK ON IMAGE COMMUNICATIONS

And word that Martin Bruchanov, OK2MNM, has written a Free e-book for hams and SWL's interested in special communication modes for image transmission and reception. This includes such modes as SSTV, Digital SSTV and radio facsimile to name only a few. You can download the entire book or view on line at:

[www.sstv-handbook.com](http://www.sstv-handbook.com)

# METEOR SCATTER FOR BEGINNERS

Paul Whatton G4DCV has released a video of the Meteor Scatter for Beginners using FSK441 presentation given by Lyndon Leach GW8JLY on October 12, 2013 at the RSGB Convention.

The HD video is available to view or download at:

<http://vimeo.com/77358505>

FSK441 is one of the modes in the free WSJT Weak Signal communications software developed by Joe Taylor K1JT. FSK441 has been specifically designed for meteor scatter. It can use random meteors that are available throughout the year. It works best in the range 800 km to 1800 km where contacts on 144 MHz can be completed with 100 watts or less and a single yagi in typically 40 minutes.

WSJT software

<http://physics.princeton.edu/pulsar/K1JT/>

Working DX on a Dead 50MHz Band Using Meteor Scatter

<http://www.uksmg.org/content/deadband.htm>

# GLOBAL ERUPTION ON THE SUN

Space Weather reports on what may be an interconnected global eruption on the Sun

Solar activity is high and intensifying. New sunspot AR1882, which rotated over the sun's eastern limb earlier October 25, promptly unleashed an X1-class solar flare, adding to a series of lesser flares already underway from sunspots AR1875 and AR1877.

NASA's Solar Dynamics Observatory recorded a bright flash of extreme UV radiation from the X1 flare, which peaked at 08:01 UT on Oct. 25th.

There may be more to this flare than meets the eye. The X1-flare was bracketed by two erupting magnetic filaments, each located hundreds of thousands of kilometers from AR1882. In other words, the X1 flare might have been just one piece of an interconnected global eruption.

More flares are in the offing. There are now three sunspot groups on the Earthside of the sun capable of strong eruptions: AR1875, AR1877 and AR1882.

Read Space Weather at:

<http://spaceweather.com/>

# GUIDE TO DIGITAL SIGNAL PROCESSING

The Scientist and Engineer's Guide to Digital Signal Processing by Steven W. Smith, Ph.D. is available for free download. You can download the book in PDF format at: <http://www.dspguide.com/>

## THE INDESTRUCTIBLE LDMOS FET

A new Laterally Diffused Metal Oxide Semiconductor or LDMOS type Field Effect Transistor designated as type BLF578XR has been developed by NXP Semiconductor. This for use as an RF power amplifier in broadcast and industrial applications.

The new device is rated at 1400 Watt output, 50 Volts DC with a gain of 23.5 dB and an efficiency of 69%. Even more amazing, it is designed to survive a 125 to 1 or higher VSWR and as such it is literally almost indestructible.

The current price of a single unit BLF578XR transistor is \$300 but like most semiconductors, it should come down in price over time.

## SEA SCOUTS TAKE PART IN JOTA

Last weekend, the Long Beach Sea Base Aquatics Center, along with the Associated Radio Amateurs of Long Beach (ARALB), celebrated Scouting's 56th Jamboree on the Air (JOTA)

The Gazette reports that together, they set up an impressive mobile "Ham Shack" in the parking lot in Basin 4, complete with a huge 50-foot antenna that was visible to traffic going over the bridge along Second Street.

It provided an opportunity for the Scouts to experience amateur radio firsthand, perhaps planting the seed for a lifetime of hamming. JOTA is the largest Scouting event in the world, with nearly 750,000 Scouts participating from 6,000 stations in 150 countries.

Read the full story at

[http://www.gazettes.com/sports/on\\_the\\_water/on-the-water-scout-jamboree-turned-ham-radio-operation/article\\_f006021a-3c2b-11e3-b52a-0019bb2963f4.html](http://www.gazettes.com/sports/on_the_water/on-the-water-scout-jamboree-turned-ham-radio-operation/article_f006021a-3c2b-11e3-b52a-0019bb2963f4.html)

Associated Radio Amateurs of Long Beach (ARALB)

<http://www.aralb.org/>

## RUSSIAN MILITARY BACK ON 21 MHZ

The IARU Monitoring Service newsletter reports on a possible Russian military station that has been using the amateur radio 21 MHz band. It says that encrypted voice traffic has been operating on 21000.0 kHz on USB. Also that the in-band synchronizing signal was always audible and quite strong. The transmitter sending out these transmissions is believed to be located in or near Nizhny Tagil in Russia but its purpose is unknown. The newsletter also reports that the Russian military have also been using other frequencies in our 7, 14 and 21 MHz bands and have been operating an Over The Horizon (OTH) radar between 3500 and 3800 kHz.

## HAMS SENT WARNING NOTICES BY FCC

According to the ARRL, the FCC's Enforcement Bureau recently made public warning letters to several individuals. This for alleged infractions of the Part 97 Amateur Service rules or Section 301 of the Communications Act of 1934.

Back on June 24th, FCC Special Counsel Laura Smith sent identical warning notices to Eric J. Christianson (KNZ0CW), and Thomas E. Barnes (N7OVC), of Reno, Nevada. This, to inform them that the trustee of the WA7DG repeater in Sparks, Nevada, had requested that they refrain from using his system.

In her notices, Smith said that the written request was issued as a result of the failure of the two hams to follow operational rules set forth by the licensee and control operators of the repeater system for their users. She went on to note that the Commission requires that repeaters be under the supervision of a control operator. Also that it not only expects, but requires that such control operators be responsible for the proper operation of the repeater system. As such, control operators may take whatever steps they deem appropriate to ensure compliance with the repeater rules.

Smith then advised the two licensees that the FCC expects them to abide by the repeater owner's request and any similar requests by other repeater licensees, control operators or trustees of other systems. She also said that continued use of the WA7DG repeater could subject the two hams to severe penalties, including monetary forfeiture, a modification proceeding to restrict the frequencies upon which you may operate or even license revocation.

On August 9th, Smith took on a High Frequency band issue. This in a letter to Jack Hartley (K4WSB), of Tampa, Florida. In it, Smith cited evidence received from members of the Amateur Auxiliary Official Observers that Hartley had operated outside of his Advanced class privileges on four separate occasions while attempting to contact a station on Kwajalein Atoll in the South Pacific.

Smith's letter to Hartley noted that According to the Official Observer's, the Kwajalein operator refused the contact noting that Hartley was not authorized to be operating in that part of the band. She noted that after sending Hartley three previous notices the O-O's contacted the Commission and asked it to remind K4WSB that his continued attempts to contact the operator on Kwajalein Atoll constitute a violation of the Amateur Service rules. Smith cautioned Hartley that continued operation outside the parameters of his license could lead to enforcement action that could include revocation or suspension and fines. The three prior instances noted by the Official Observers occurred in 2007 and 2008.

The FCC also sent warnings to several non hams for operating without a license. That part of the report next week.

What are the morals of these stories?

When you are a guest on a repeater, BEHAVE YOURSELF!

When the Trustee advises you of a problem with your operations, LISTEN!

Stay in your licensed bands. Don't let a DX opportunity lure you to violate the law.

## AMSAT CELEBRATES 30TH YEARS

A special highlight of this year's AMSAT Space Symposium and Annual Meeting will be the celebration of the 30th anniversary of amateur radio involvement in human space flight. This as it evolved into a successful program on board the International Space Station that we all know as ARISS.

The AMSAT Space Symposium and Annual Meeting takes place November 1st to the 3rd in Houston Texas. And in recognition of the 30th anniversary of manned ham radio in space, a specially invited panel featuring former Astronaut Owen Garriott (W5LFL), and other key individuals who initiated this amazing program will take place on Saturday evening, November 2nd as a part of the symposium's grand banquet.

The event will be moderated by Frank Bauer (KA3HDO), who is AMSAT Vice President of Human Space Flight. The presentation includes not only remarks by Garriott and others, but also video highlights of amateur radio participation in the first ever manned ham radio operation from space as well as several other shuttle flights.

Owen Garriott (W5LFL) flew on shuttle flight STS-9 in November 1983. He was the first astronaut to utilize amateur radio to communicate with those on the ground. This in turn permitted the general public to speak with a United States astronaut from space, doing so outside of NASA communication channels. Garriott's operation from the space shuttle Columbia was commemorated in the video "Amateur Radios Newest Frontier" produced and hosted by the late NBC newsman Roy Neal (K6DUE).

According to AMSAT, holding this celebration in Houston makes it all the more special. This is because it will permit non-AMSAT personnel and others involved with placing amateur radio on the space shuttles and later onto the International Space Station a chance to participate in the celebration.

The 31st Annual AMSAT Space Symposium and Annual Meeting takes place at the Houston Marriott South at Hobby Airport. Details about the symposium and this celebration are on the web at [www.amsat.org](http://www.amsat.org).

## WI-FI VIA LIGHT BULBS?

The Xinhua News reports that Professor Chi Nan of Shanghai's Fudan University has used a LED bulb to provide a high speed internet connection. She explained that by using Li-Fi technology a light bulb with embedded microchips can produce data rates as fast as 150 Mbps, much higher than the average broadband connection in China. "Wherever there is an LED light bulb, there is an Internet signal," said Chi. "Turn off the light and there is no signal."

The term Li-Fi was coined by Harald Haas from the University of Edinburgh in the UK and refers to a type of visible light communication technology that delivers a networked, mobile, high-speed communication solution in a similar manner as WiFi. You may read the Xinhua News article at [http://news.xinhuanet.com/english/china/2013-10/17/c\\_132806591.htm](http://news.xinhuanet.com/english/china/2013-10/17/c_132806591.htm)

The problem with Li-Fi technology is getting the Internet to the bulb. It is understood all current Li-Fi systems make use of polluting Power Line Telecommunications (PLT) which can render the HF radio spectrum unusable.

# ANTENNAS

The antenna is the most neglected, and at the same time, the most important component of any radio system. Many Hams have antennas that have been out in the elements for years, some for decades. As long as they continue to work, they aren't given a second thought.

In practice, antennas for HF and V/UHF tend to be different in construction. Any antenna can be built for any frequency. As long as all dimensions are scaled proportionally with respect to wavelength, the antenna will operate similarly on that frequency. Due to the large difference in wavelength, however, the practicality of building a particular antenna on a specific band is definitely a factor. Most antenna designs incorporate quarter-wavelength and half-wavelength sections.

On V/UHF bands, the small size of a half-wave section makes elaborate, high-gain antennas practical. It is not unusual to see gain figures of 12-dB or more in a simple, collinear vertical, or a compact Yagi array. A three-element Yagi-Uda directional antenna for UHF might be "a foot long by a half-a-foot wide", while a comparable antenna for the 20-meter HF band is the size of a small airplane.

On the HF bands, where wavelengths are larger, antennas tend to be more basic. When a simple dipole is too large to fit in your back yard, it's pretty difficult to get very elaborate.

There are three Rules of Antennas:

- 1) Any antenna is better than No Antenna.
- 2) Every antenna installation is a compromise
- 3) If little antennas really worked as well as big antennas, no one would spend th time, money and effort to erect the big ones. This last Rule is based on the sound principle that, "If your antenna survived last Winter, it's not big enough".

Antenna selection involves a number of variables. Defining what you want to do with it is a good place to start. Are you only going to work through the local repeaters, or do you want the option of working more distant relays? How about simplex contacts? Are you planning to only work FM or will you want to work SSB (or even CW) at some point?

With HF, the choices are just as broad. Are you mainly interested in regional 75-meter social nets, or worldwide DX? How much room have you got to hang wire? Can you erect a tower?

One often overlooked, but vitally important part of antenna installation is waterproofing. The importance of this cannot be overstressed. Water in coax will permanently destroy it. There is no way to undo the damage water causes in coaxial cable. Corrosion on connections will cause noise, poor connections and erratic operation.

What's the best way to select an antenna for your particular station? Ask around. Find out what other Hams are using and what kind of performance they are getting. Some of the best sources of information are "old timers" who have been around long enough to see a selection of antennas under a variety of conditions. Never be afraid to crack a book. There are a number of great references on antennas, and in Amateur radio, Knowledge is Power, it's also Money. The more you know, the less you spend.

*de NM7R*



## FCC DISMISSES 10M TECH EXPANSION

The FCC has dismissed a Petition for Rule Making that sought to expand Technician privileges in the 10 meter band. The Toledo Mobile Radio Association (TMRA) had asked the Commission last June to expand the spectrum available to Technician licensees on 10 meters to include operating privileges in the FM portion of the band, from 29.520 to 29.700 MHz. Novice and Technician licensees now may operate on 10 meters from 28.000 to 28.500 MHz.

"We conclude that TMRA has not presented grounds for the Commission to revisit the question of operating privileges for Technician class licensees," the FCC stated on October 17th in denying the petition. The FCC stated that Technicians may transmit through repeaters licensed to a General class or higher licensee that have an output channel in the 29.5 to 29.7 MHz segment, as long as the repeater has a 2 meter or 70 centimeter input.

Further, the FCC pointed out that the current licensing structure was developed "with the expressed desire of the amateur community to provide an incentive. That would be, additional frequency privileges, to motivate Amateur Radio operators to advance their communication and technical skills." The FCC noted that it increased Technician privileges in 2006 to include Novice and Technician Plus privileges. "A Technician class licensee can upgrade to a General class operator license and receive significantly more frequency privileges by answering correctly a minimum of twenty-six questions on a thirty-five question written examination," the FCC said. TMRA, the Commission concluded, had submitted no evidence that the FCC should depart from its "long-standing policy of providing additional frequency privileges as an incentive" for license advancement.

TMRA had asserted that amending §97.301(e) of Part 97 would extend Technician voice privileges on 10 meters to "coincide with today's technical advancement of the Amateur Radio Service."

## AMERICAN LEGION TAKES TO AIRWAVES IN SALUTE TO VETERANS

Indianapolis Legionnaires will honor their fellow veterans in a special on-the-air tribute on Veterans Day, November 11th. That when members of The American Legion Amateur Radio Club will operate using the special event call sign W9L on 20 meters, 2-meter simplex, a Central Indiana repeater and connect world wide via IRLP beginning at 9:00 a.m. through 5 p.m. Eastern Time.

Frequencies in use will include to 14.275 MHz upper sideband on 20 meters, 146.46 MHz on 2 meter simplex, the 145.17 MHz repeater in Hamilton County and IRLP Node 4816. Those who make contact with W9L will be eligible to receive an attractive full color commemorative certificate. More about this event including QSL routing is on the web at website [www.legion.org/hamradio](http://www.legion.org/hamradio).



# HOW ABOUT SOME MORE DX?

## BANGLADESH DXPEDITION

The Mediterraneo DX Club (MDXC) announced earlier this month that they have received two callsigns for their Bangladesh operation:

"Great news from the Mediterraneo Dx Club International Team. The leader Antonio, IZ8CCW, and the co-leader Gabriele, I2VGW, are happy to announce to the Dxr Community that, after many months of hard work and with the great help of a local friend, Manjur, they became able to obtain a wonderful couple of twin callsigns that will accompany the team during their new DXpedition in Bangladesh: S21ZBC and S21ZBB

As a matter of fact, they are going to use the first one (S21ZBC) from the DXpedition starting (November 16th) to November 22nd included, and then they'll shift on the other call (S21ZBB) that they'll use starting from November 23rd for the CQ WW CW CONTEST week-end and the remaining days till they leave the Country.

For any further news and updates please visit the official web site of Bangladesh 2013 adventure: <http://www.mdx.org/bangladesh2013> Any donation will be greatly appreciated by the team.

The Mediterraneo Dx Club  
[www.mdx.org](http://www.mdx.org)"

A group of operators from India will be operating from the Lakshadweep Islands from November 20th to the 10th of December as VU7AG and VU7KA. They will be active on 160 through 10 meters using CW, SSB and RTTY. QSL via W4VKU

A team of 8 operators will be active from the rare Banda Besar Island between November 10th to the 15th. Callsigns have not been announced yet but operations will be on 40 through 10 meters using CW and SSB. Look for more details to be forthcoming at [oc157.blogspot.co.uk](http://oc157.blogspot.co.uk).

The Martello Tower Group is returning to Herm Island from October 4th to 9th using the callsign GP0PKT. Their operation will be 80 through 10 meters including the WARC bands using SSB and RTTY. Although Herm is part of the Guernsey Islands on the Air group, it isn't activated very often and the GP0 prefix usually attracts some interest. All QSOs will be uploaded to Log-book of The World. Direct or bureau cards should be sent via G6NHU.

The Mediterraneo DX Club (MDXC) have announced that they will be organizing some skeds from the headquarters of the Bangladesh Scouts, where they'll operate, with other Scouts groups in the World. This is a good opportunity for Bangladesh Scouts to listen and contact other Scouts on the air. The team's idea is to offer these special skeds on 20 meters on November 20th and 21st around 1300 UTC. Scout Groups interested can write an E-mail to their Pilot station IK7JTF. More updates will be forthcoming soon.

Just a reminder that this DXpedition will take place between November 16-26th, using two callsigns - S21ZBC from the start of the DXpedition (November 16-22nd), and then they'll shift to the other callsign S21ZBB, starting from November 23rd for the CQWW CW Contest weekend and the remaining days until they leave the country.

## WASHINGTON HAMS HONORED FOR COMMUNITY PREPAREDNESS

An all-volunteer amateur radio organization has been recognized by King County, Washington for its commitment to emergency preparedness and response.

The Renton Emergency Communication Service was chosen for this accolade based on a record of service that stretches back long before their formal incorporation by two groups of amateur radio operators in 2008. Over time the volunteers have evolved to become a key asset to Renton's Fire and Emergency Services Department, especially during disasters.

Each of the group's members is trained to staff the Renton Emergency Operations Center and carry out communication responsibilities. During the snow and ice storm of January 2012, they performed critical functions, including call-taking, managing radio and social media, and providing real-time weather and road information gathered from around the City of Renton. When power was lost to hundreds of homes, Renton Emergency Communication Service members were deployed to Renton's network of Neighborhood Information Centers, where they posted information on shelter and food distribution locations delivered to them by radio.

Mark Peterson is the Fire Chief of Renton. He says that the dedication and commitment shown by the Renton Emergency Communication Service volunteers is making a real difference in his departments ability to better serve the community. Peterson added that the hams provide timely and critical communications and information before it is needed. More on this story is on the web at <http://www.tinyurl.com/renton-hams-honored>.

## GET READY FOR THE RaDAR CONTEST

The RaDAR contest is an event aimed at promoting the use of Rapidly Deployable Amateur Radio stations. This contest is for all licensed radio Amateurs. A choice is made prior to the contest to participate in one of the defined categories. The points system is so structured as to encourage portable operation especially moveable stations.

The contest will be held on 2 November 2013, starting at 14:00 UTC and ending at 18:00 UTC. All amateur bands, besides the WARC bands, are allowed including cross band contacts via amateur radio satellites. Modes - CW, SSB, AM, FM or any digital mode. QSOs via terrestrial repeaters will not be allowed. Watch a promotional video on Amateur Radio Today page on [www.sarl.org.za](http://www.sarl.org.za).

## MOST OF MARS OPERATES IN SHUTDOWN(S)

The US Army MARS gateway station at Fort Huachuca, Arizona, is operating on its normal schedule during the government shutdown, but routine administrative activity is on hold. This is because computer systems are down and no membership paperwork can be processed for the duration of the fiscal crisis. As a civilian contractor not covered by the shutdown, Operations Officer David McGinnis (K7UXO), is completing final preparations for the November 3rd to the 4th national communications exercise. Also, the MARS national net is still functioning normally.

# PHILIPPINE EARTHQUAKE REPORT

A follow-up to last weeks report on a devastating earthquake that hit the Bohol region of the Philippines. According to Roberto Vicencio, DU1VHY reporting via QRZ.com, due to the shaker both the communication and electrical power infrastructures in the disaster area were initially crippled. He notes that to date over 140 fatalities have been recorded on the island of Bohol and about 10 on the island of Cebu adding that numerous buildings were damaged due the severity of the shaker.



DU1HVY notes that as of his latest posted report that hams were still passing information to and from the island and to the National Capital Region. Communications was taking place on 7.095 MHz on the 40 meters plus VHF, Echolink and using the social media.

John Hays is DW5HT on the island of Leyte. Hays, who is also WB0HZL notes that in the Philippines there are approximately 5000 licensed hams in a country with a population of about 103 million. He notes that the land mass is about the size of Oregon but the country is long, thin and made up of numerous islands. As such, the Philippines do not have the extensive repeater systems so commonly found here in the United States. There, the National Emergency High Frequency calling channel is 7.095 MHz and Hays says that this works very well for communication throughout the country on a 24 hour a day, 7 day a week basis.

## 13.560 Mhz FOR DEBIT /CREDIT CARDS

The BBC reports a researcher at the University of Surrey has intercepted the HF 13.560 MHz signal used by **contactless** debit and credit cards. BBC News says Thomas P Diakos built equipment that could reliably eavesdrop on synthesized payment data at more than four times the distance it should have been. Inconspicuous equipment including a shopping trolley, a backpack and a small antenna were used to intercept the data.



Read the research paper Eavesdropping near-field contactless payments: a quantitative analysis  
<http://digital-library.theiet.org/content/journals/10.1049/joe.2013.0087>

CEPT WG SE24 - Short Range Devices  
[http://www.southgatearc.org/news/september2012/cept\\_wg\\_se24\\_short\\_range\\_devices.htm](http://www.southgatearc.org/news/september2012/cept_wg_se24_short_range_devices.htm)

Read the BBC News story at:  
<http://www.bbc.co.uk/news/technology-24743920>

NFC in Electronic Communications Committee Newsletter  
[http://www.southgatearc.org/news/february2011/ecc\\_newsletter.htm](http://www.southgatearc.org/news/february2011/ecc_newsletter.htm)



# WHEELER NEW FCC CHAIRMAN

IDG News Service - The U.S. Senate on Tuesday confirmed the nomination of a new chairman to the U.S. Federal Communications Commission. The confirmation of Tom Wheeler as chairman and Michael O'Rielly as a commissioner ends a deadlock over the appointment of two key FCC executives after Republican lawmakers withdrew their opposition.

Commissioner Mignon L. Clyburn was named acting FCC chairwoman in May after Julius Genachowski, chairman since 2009, stepped down earlier this year. Wheeler is a former investor and head of telecommunications industry groups. President Obama said, when announcing Wheeler as his choice in May, that "for more than 30 years, Tom has been at the forefront of some of the very dramatic changes that we've seen in the way we communicate and how we live our lives."

Mobile industry group CTIA congratulated Wheeler and O'Rielly on Tuesday on their confirmation by the Senate. "We are energized to work with the full panel of Commissioners at a time when the agency looks to deliver much-needed spectrum to fuel the deployment of mobile broadband services and maintain our global leadership in the mobile wireless ecosystem," the wireless industry association said in a statement.

Sen. Ted Cruz of Texas said he had removed a hold on Wheeler's nomination after the nominee reassured him during a meeting that regulation of campaign funding disclosures, without congressional action, was "not a priority." There were also concerns raised that Wheeler would promote industry rather than consumer interests. Gigi B. Sohn, president and CEO at Public Knowledge, a consumer rights group, said the organization looked forward to working with Wheeler. "We expect that he will work to preserve a strong FCC that will ensure an open, universally accessible and affordable communications system that serves all Americans," Sohn said in a statement about the confirmation.

"We also expect that he will carry out the president's communications policy agenda, which includes robust open Internet requirements, vigorous broadband competition, affordable broadband access, diversity of voices and serious consumer protections, all backed by vigorous agency enforcement," she added.

By John Ribeiro

## FORMER MO. HAM FINE REDUCED FROM 10K TO \$500 FOR UNLICENSED OPERATION

The FCC has fined Jared A. Bruegman, the former KC0IQN, of Bolivar, Missouri, \$500. This, for transmitting without a license in the Amateur Service 20 meter band. Last February, the FCC issued Bruegman a Notice of Apparent Liability for Forfeiture in the amount of \$10,000 after its agents observed an unlicensed radio transmitter operating on 14.312 MHz from a residence in Bolivar in December 2012. Bruegman was the only person at home at the time and admitted to owning the radio transmitting equipment.

In his response to the Notice of Apparent Liability Bruegman claimed that the \$10,000 would be a financial hardship and requested that the FCC cancel the proposed fine. He also submitted the required financial records to back up his claim.

**W8AL**

[www.w8al.org](http://www.w8al.org)

**The Canton Amateur Radio Club, Inc.**

**P.O. Box 8673**

**Canton, OH. 44711**

**President - William Hannon (N8PW)**

**Vice President - Dale Lam (NX8J)**

**Secretary - Scott Duncan (KK8D)**

**Treasurer - Roger Gray (W8VE)**

**Trustee - Jerry LaRocca (KF8EB)**

**Trustee - Jim Manson (KA8JIM)**

**Trustee - Dennis Moriarty (K8AGB)**

**Trustee - Jerry Shrigley (N8YB)**

**Trustee - Justin Corner (W8JKC)**

**Trustee - Alan Lamb (KB9TAY)**

**Publicity Director - Dennis Moriarty (K8AGB)**

**W8AL repeater = 146.790 MHz**



Our monthly meetings are held every third Wednesday at 7:30 P.M. at the Stark County EOC (Emergency Operations Center) (lower level) at 4500 Atlantic Blvd. NE in Canton, Ohio.

See our website for a handy map to the location. All are welcome, especially visitors.

## NEED BURMA?? (MYANMAR)

Zorro (JH1AJT) and the group will be on air from Nay Pyi Taw, Myanmar again from 15th to 26th November 2013. This will be the third and final run for 2013 from XZ land. The proposed call sign is XZ1J this time, and plan to set up three to four stations, run 24/7, on 160 – 10m bands, CW SSB and RTTY. The announced operators are;:

JH1AJT, Zorro

DJ9ZB, Franz

E20NKB, JC

E21EIC, Champ

JA1DXA, Katsu

JA1TRC, Jay

K3LP, David

N6PSE, Paul

PP5XX, Peter

PY2NDX, Rafael

VR2KF, Kazu

QSL: OQRS preferable

73, The XZ1J Team

Jay S. OKA, (JA1TRC)

Seisa Group/FGC [http://www.fgc.or.jp/english/s\\_oka@fgc.or.jp](http://www.fgc.or.jp/english/s_oka@fgc.or.jp)