

About The Story

Volume 6 of "The Adventures of Zack and Max" takes us on a journey with HF amateur radio. Zack, Max and Mady, along with their family and friends, take a weekend road trip and have their own mini DXpedition. This means that they went to a nearby yet remote location (Orcas Island, one of Washington State's San Juan Islands), and while camping tried to make as many world wide contacts as possible. They discover that HF is a way to contact the whole world, and that one does not need to spend a lot of money or go to the ends of the earth to have fun with ham radio DXing.



The writers agree: Ham radio is fun!

Once again, the writers are students from the Lake Washington Ham Club (K7LWH) at Ben Franklin Elementary School in Kirkland, Washington. Under the leadership of Mr. Dave Condon (KI7YP), the students set out to learn about the world of HF. All of them have earned their Technician licences and there is a growing number of General licences. The students drew upon their own experiences camping in the Northwest, as well as making friends with other amateur radio enthusiasts from around the area, and from around the world. Pictured above is Dave and some of the writers of this volume in his classroom surrounded by the previous stories he has guided and helped to develop.

We would like to extend a special thank you to Dave Condon and acknowledge the help and guidance he has given the Lake Washington Ham Club and the students at Ben Franklin Elementary. He has helped hundreds of families pass their Technician and General tests and has created a strong ham club devoted to the promotion of ham radio with kids of all ages. He has been a major force behind the creation of the past 5 comic books for Icom America. With his help, the students have learned all

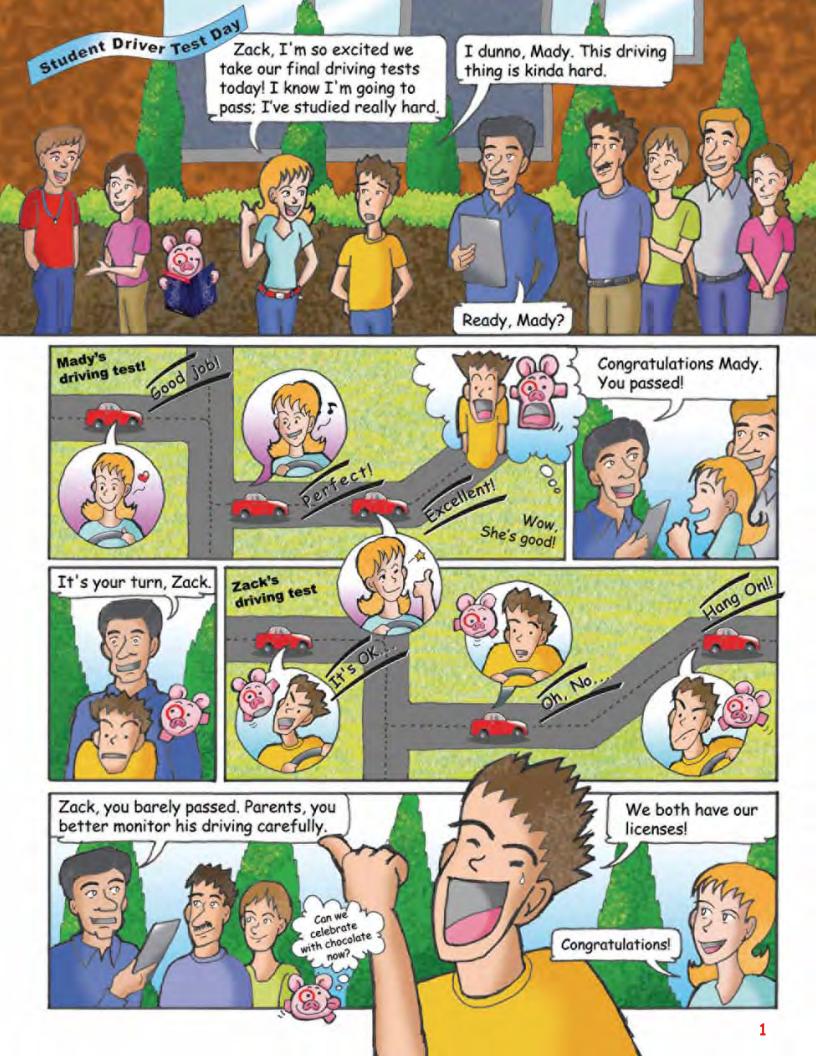
aspects of amateur radio, as well as the importance communication plays in times of emergency, in international goodwill, and teamwork. Icom America truly appreciates the energy he has consistently shown with these projects. The picture below shows Dave's writing team joined by some of this year's crop of new hams who have just passed their Technician tests. This year Dave will be retiring from Lake Washington School district, but not from his position in the ham club. He will continue to promote and inspire the young ham in all of us!

This edition of the comic book was made possible by a team of writers led by elected student editor Rachel Roberts (KE7HQQ), and assisted by writers Christa Hoskins (KE7HVF), William Clawson, (KE7MJT), Helen Simicek (KE7MIE), Alka Pai (KE7NDB) and Tian-Ai Aldridge (KE7MIV). Many parents and members of the Lake Washington Ham Club supported the project through encouragement and assistance. Icom America would like to acknowledge Mr. Royce Roberts (KE7HQP) who helped to edit the final text, and Cathy Corley who provided pictures of Mt. Constitution. We would also like to thank the members of Islands On The Air (IOTA) for giving us permission to reference their site, providing us with excellent information. We would also like to thank all of our international and local friends who allowed us to share their amateur radio experiences in the comic book story. It is our hope that this story will inspire amateur radio enthusiasts of all levels to get out and enjoy using a handheld, mobile or HF rig and explore the world of DXing!



Max, Mr. Condon and friends

Kayoko Nakajima, professional cartoonist and illustrator, has created another splendid piece. Ray Novak (N9JA), Maureen Blomgren (KD7QDZ), and Dave Kruzic (KC7SFN) of Icom America not only produced and sponsored but also underwrote the publication.



Good job, Zack! Let's have a group trip and you kids can drive up to the San Juan Islands for a mini DX trip*.



Oh, I've always wanted to go to the San Juans. Mt. Constitution would be perfect! DX contacts work better at high points, better coverage. It's an island DX trip!





That sounds like a lot of fun.
Why don't you invite some of your
unlicensed friends on the trip?
You can teach them about ham radio.

I'll invite my friend, Brooke. She wants to know more about ham radio. Dad, let's take cousin William. He's interested in becoming licensed. He's coming into town soon. This will







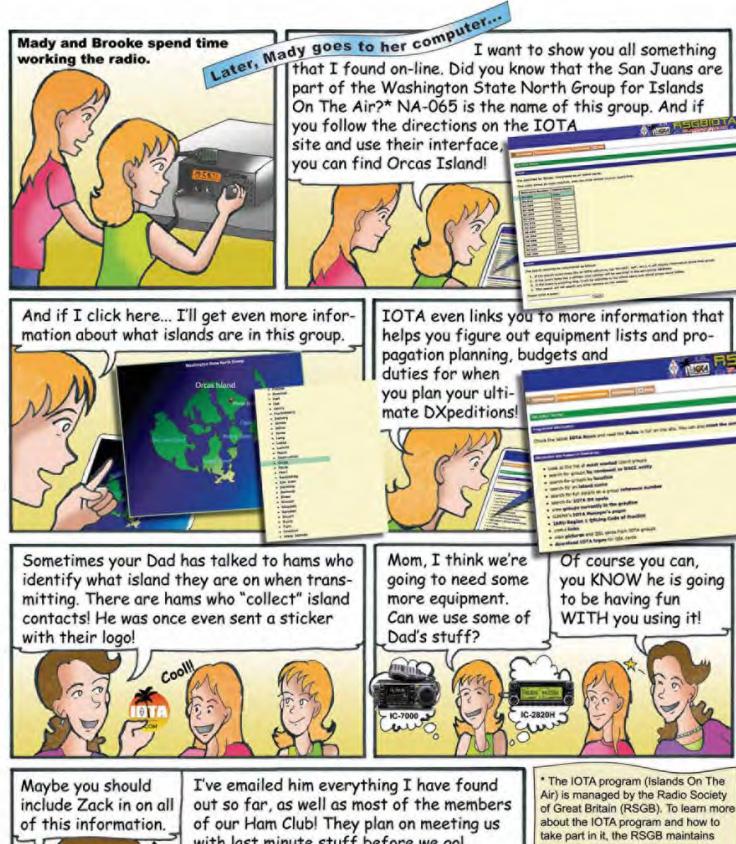
Mady, Mr. C wants your HF skills to be right on target for the trip. Brooke can watch you while you operate, so she is more

comfortable with the radio.





*Their "mini-DX trip" is an attempt to go to an out-of-the-way area and extend the range and ability of their radios and make as many contacts with distant stations as possible. DX is an abbreviation for "distant station" or "signal from a distant station." When setting up a DXpedition that will transmit from an area that is usually not on the air, one needs to request from the FCC a special event or one time callsign. Smaller trips do not require one. For more information see ARRL Operating Manual, 9th Edition, 6-1.



with last minute stuff before we go!

a useful website outlining the rules and goals of the IOTA program.

http://www.rsgbiota.org/ The RSGB suggests you visit this site to learn about the program, then return here: http://www.islandchaser. com/ and they'll point you towards DX!

*A DXpedition is when you go to and transmit from an area that is usually not on the air, or has no amateur radio designation. One needs to request from the FCC a special event, one time callsign, for DXpeditions that are larger and far away. This DXpedition is a smaller trip to an out-of-the-way area and does not require a special event callsign.





together yet! I'm so confused with all the stuff you sent me yesterday!



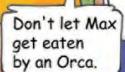
be to hard to find things in your room ...







Thought you might need this....a compass and some extra rope, and batteries. It's good to be prepared!

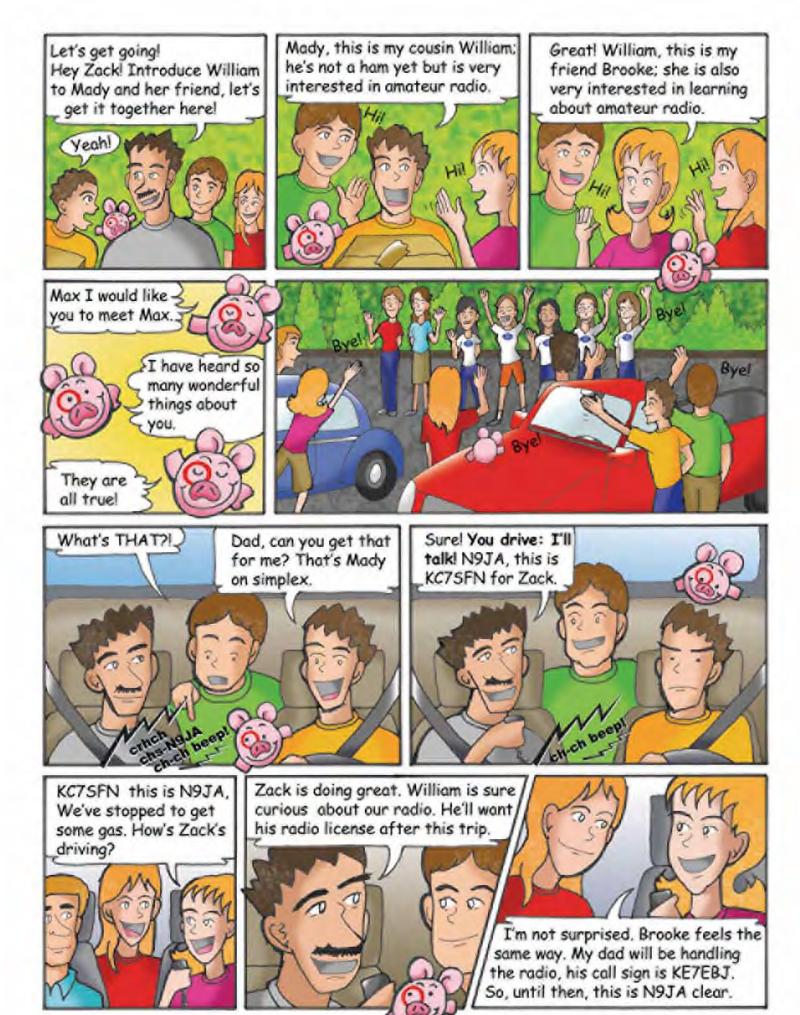


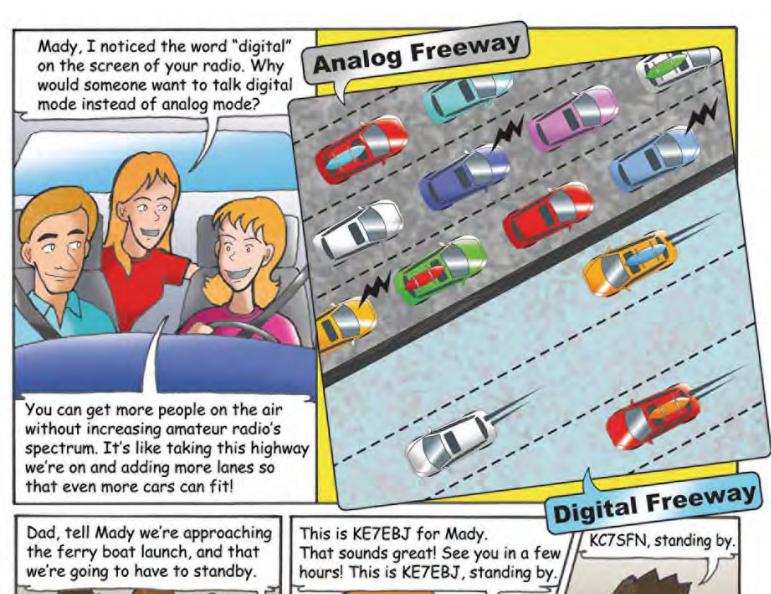
Good luck you

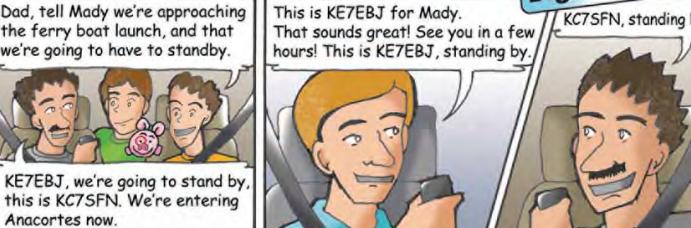
guys!

Make some great contacts! I got you some QSL cards to take along!













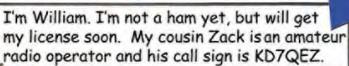






It's not a country flag, but an amateur radio flag.

I am a ham. My name's Norm and my call sign is KC7ARY. The flag is the British Columbia Boater's Net Flag and sometimes I fly it on my boat and other times like today, I fly it on the antenna of my motorcycle.







That sounds like fun! I am heading home to Shaw Island. I am a biologist and do research about animals living in the water.



It looks like they're loading cars on to the ferry now. It was nice talking to you.







Zack continues teaching William about radios...

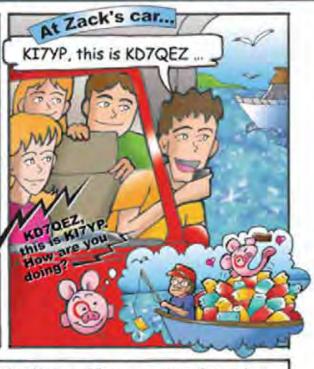
I've got a great idea. Let's all go to my truck and call Mr. Condon! I think he's out fishing on his boat.

Uhm, Mady, Zack, what does his boat look like? I think I see one that's not too far way...



This ferry
has terrific
Fsnacks
on board

Sure! Sounds great! This will show them both how to make a contact! But... he better be close by as HF radio waves might not be able to go through the iron that is in the hull of this ferry.



KI7YP this is N9JA. We're doing great. We were showing some friends how to make contact with my new mobile radio! Uhm, what's that rumbling sound?

Oh, that rumbling is coming from the diesel engine on my trawler. I'm heading north for salmon fishing.



Salmon? Yum! Well, We'll be leaving the ferry soon so it looks like we have to go! Good luck with fishing.



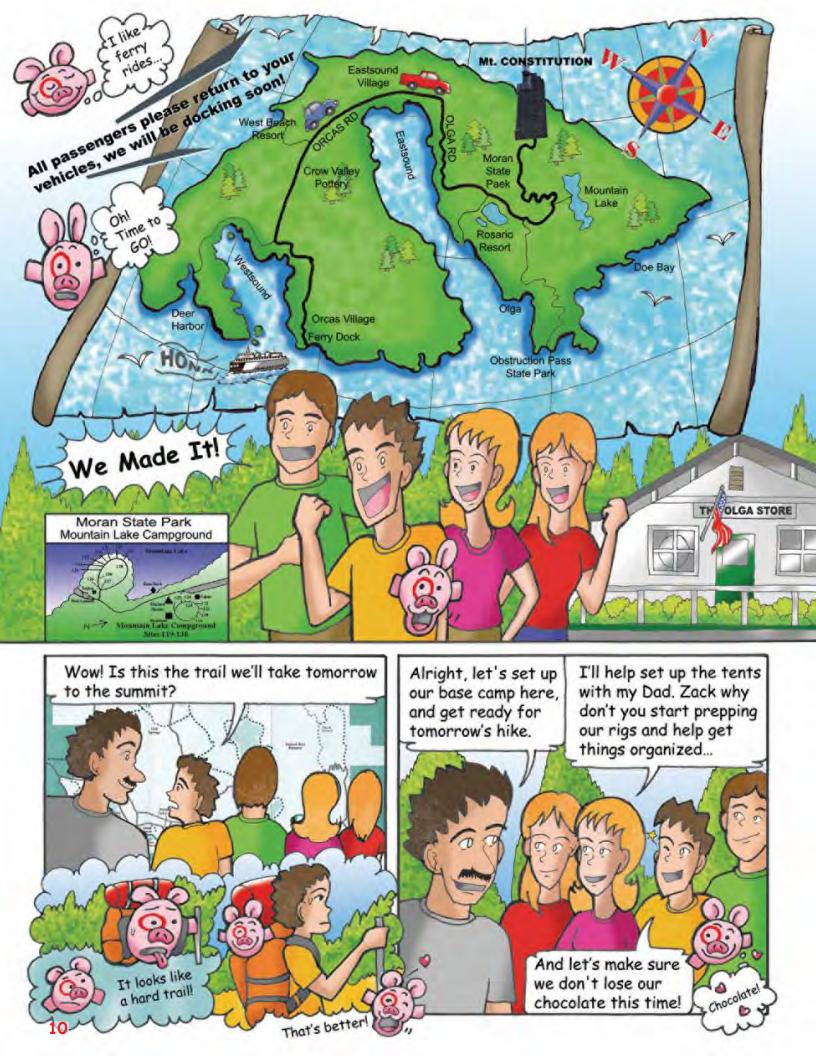
Ferry! Are you on that ferry off to my starboard side? You should be about ready to dock. 73 N9JA, this is KITYP clear!



73 KITYP, this Mady, that is N9JA clear! was so cool!



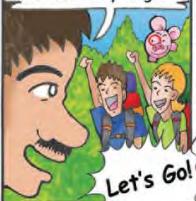
Yeah, Zack, that was awesome! I want to get my own license.

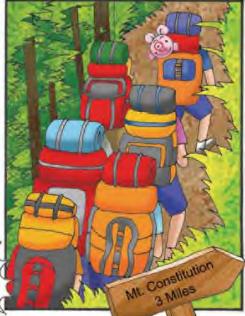




Next Morning...

Does everyone have water, and their other 10 essentials?*
Are we ready to go?

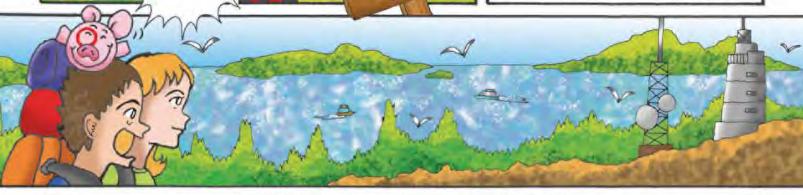




Mady, I have been wondering what CQ means. I've been hearing you guys say it a lot.



I'm glad you asked. CQ means "calling all stations" and inviting others to join a conversation or start one with you. Let's get to the top of that mountain so we can get set up and make some contacts!



Whew! What a climb! What a view! Hey Zack, here's a nice large area with picnic tables. Let's take a break, have some lunch and then get set up!



You all have your assigned duties after lunch!

This is such a beautiful spot! Look at that old stone tower! Zack, I had no idea there would be so many antenna towers and pieces of commercial radio gear equipment here.



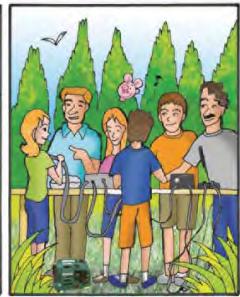
Mt. Constitution is 2050 feet higher than anything else around with the salt water of Georgia Strait below, it is a fabulous ground plane for DX HF radio.

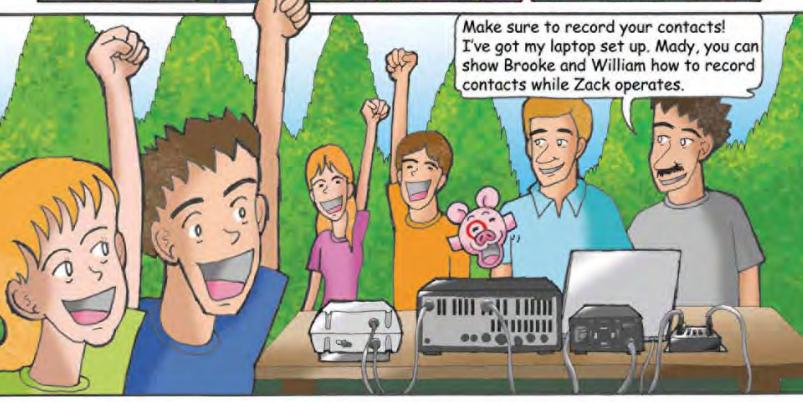
*Ten essentials for backpacking are: 1. map, 2. compass (optionally supplemented with GPS reciever), 3. water and a way to purify it, 4. sunglasses and sunscreen, 5. extra food and water, 6. extra clothes, 7. headlamp or flashlight, 8. first aid kit, 9. fire starter, and matches, 10. knife. Taken from The Mountaineers, a Seattle-based organization for climbers and outdoor adventures.

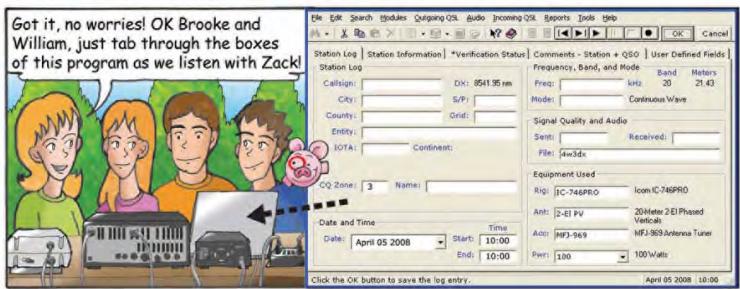


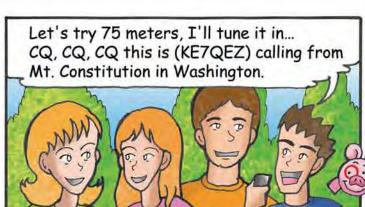
Brooke and I will connect the antenna cable to the Icom AH-4 antenna tuner and to the Icom 718 HF transceiver.











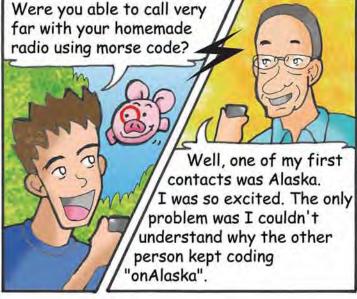


Hi Bill, I'm Zack, KE7QEZ my friends and I are working HF on Mt. Constitution, IOTA designation N65.



How long have you had your radio license?

I have had my radio license so long that when I started we built our own radios. My first license at that time was on 80 meters and you could use only Morse code.

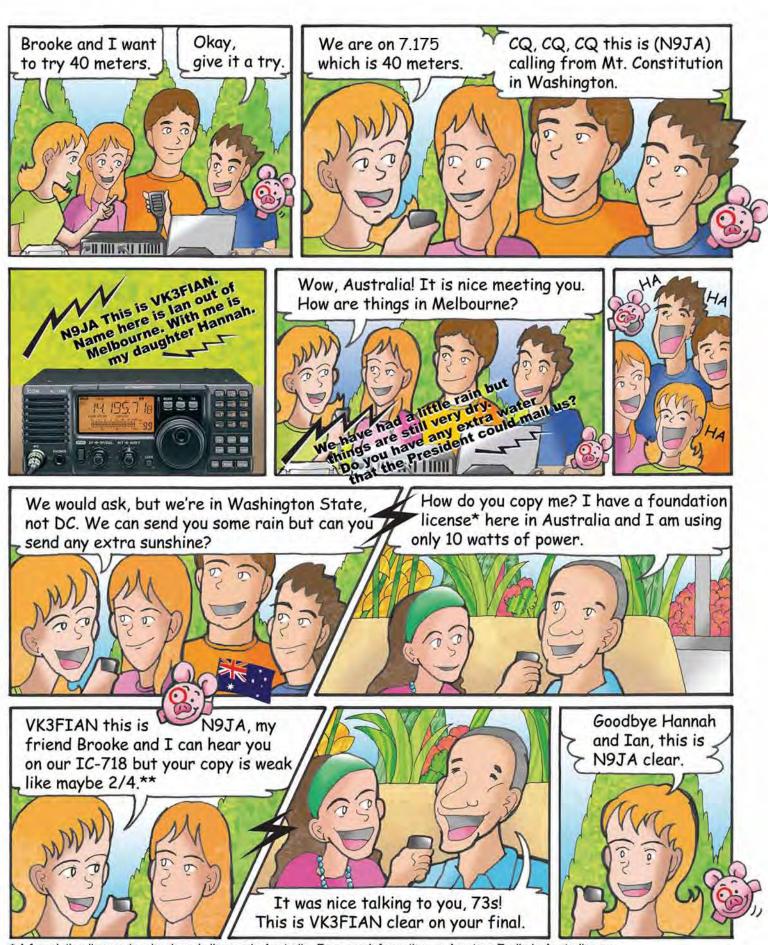




It turned out that I was contacting someone in a town named Onalaska, not the state of Alaska. But, I was still excited to make contacts with my homemade radio. It really didn't matter where they lived.







^{*} A foundation license is a beginner's license in Australia. For more information on Amateur Radio in Australia see: http://www.wia.org.au/foundation/

^{**}A signal report is an evaluation of the transmitting station's signal and reception quality. Signal ratings are Signal Strength (0-5) over Distortion (0-9). The best signal rating to be 5/9. A signal report of 2/4 means that it is a weak signal with a fair amount of distortion.











Zack! Can you show me how far we can go on your V82?

Sure! This is a VHF radio and it won't work as far as the HF base radios we're using, but let's give it a try.

Set the frequency to 146.680. That is the Vancouver Island Radio Trunk System.







It's done!

This is KE7QEZ, is anyone on frequency? CQ, CQ KE7QEZ, is anyone on frequency?





VATTRH, you are full quieting!* We are doing DX from Mt. Constitution and decided to see how far 2 meters would travel. How do you copy?

You're also full quieting! I am at Woss Lake fishing with my grandfather VETREH and grandmother VATBON. We're all hams!



Hummm, Fishermen never really tell the truth about fishing but I can say we aren't eating hamburger for supper.

Are you catching any fish?



Sounds like you made a great contact!
We just finished contacting Alaska, we made
some Canadian contacts too and Japan...

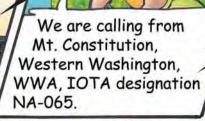


Speaking of fish, I think we've hooked something...

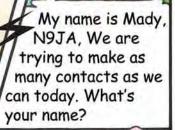
CQ, CQ, this is N9JA, calling from Mt. Constitution in Washington....



N9JA, this is JK3AZL calling from Osaka, Japan! Please repeat your location.



Copy that. I have you at IOTA NA-065. You are coming in clear.



That's great! My name is
Nami. I am glad to know
your IOTA designation,
I collect IOTA contacts!
Good Luck! 73! This is
JK3AZL clear!







JS3CTQ, this is N9JA calling from Western Washington your signal is strong!





N9JA! I am calling from Osaka Japan, I could hear you talking with JK3AZL! Your signal is very clear too!





Japan! I can't believe this! Mady, quick, before we get someone else...what were those numbers?! What is WWA again, and WHAT was all that about Juliet and November?





Oh, remember, WWA, means Western Washington and Juliet and November are "J" and "N". They are part of the phonetics alphabet. We use it to help identify clearly our callsigns. I brought an alphabet chart along, it should help us all a lot! I still use it!

Standard Phonetic Alphabet (NATO phonetic alphabet)

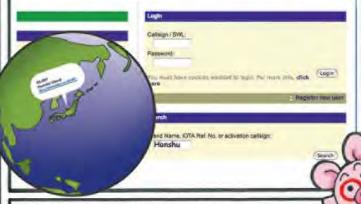
A - Alfa J - Juliet 5 - Sierra B - Bravo K - Kilo T - Tango C - Charlie L - Lima U - Uniform D - Delta M - Mike V - Victor N - November E - Echo W - Whiskey F - Foxtrot O - Oscar X - X-Ray G - Golf P - Papa Y - Yankee H - Hotel Q - Quebec

I - India

Z - Zulu R - Romeo

And guys, remember we can look up where our contacts are if they are on an island too! Don't forget the IOTA web site and tools!





Let's turn the 718 to 75 meters at about 3.855MHz, and I'll give Mr. Condon a call on his boat, KITYP this is N9JA.

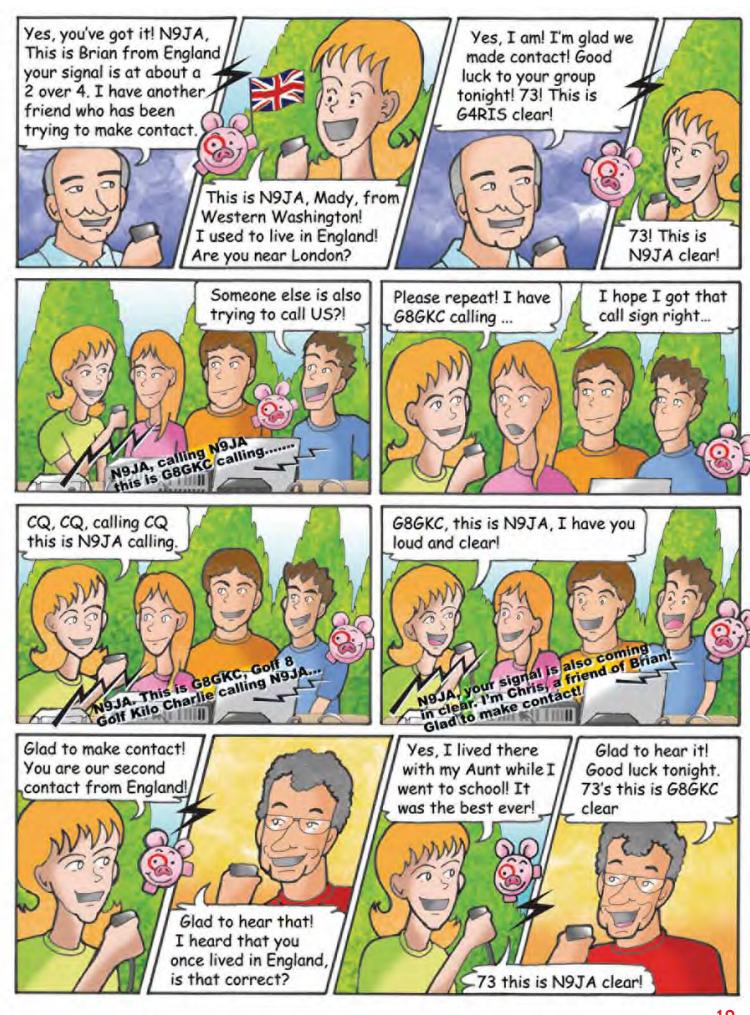


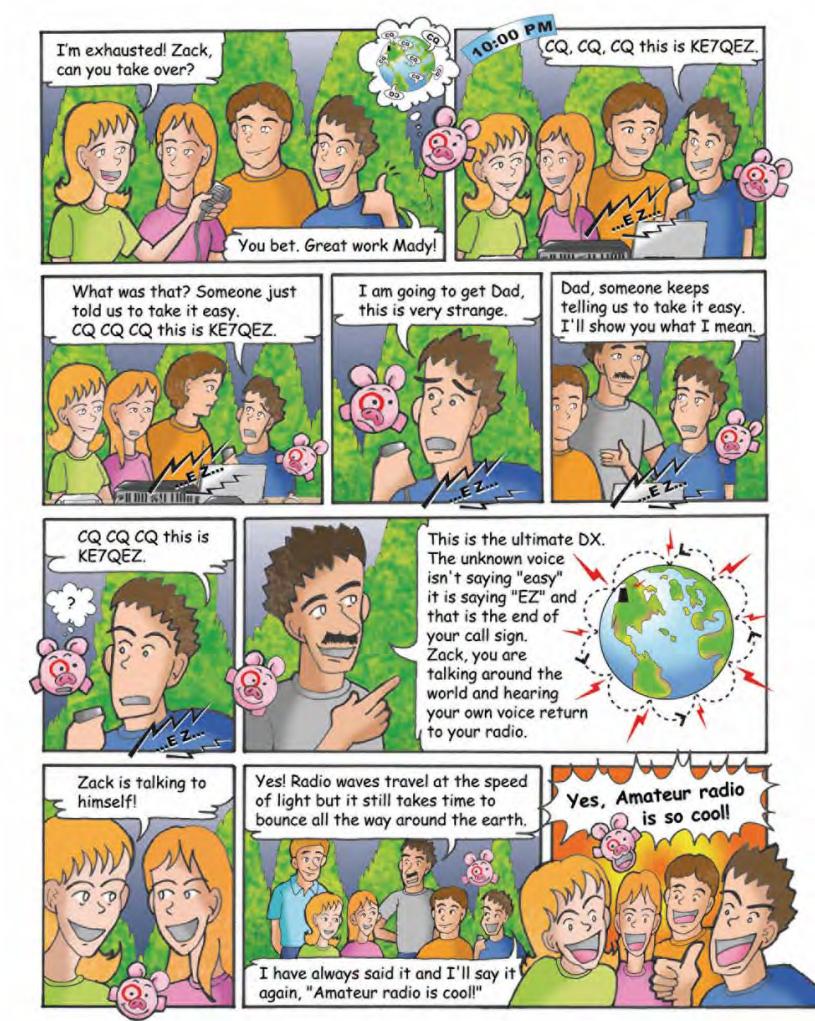


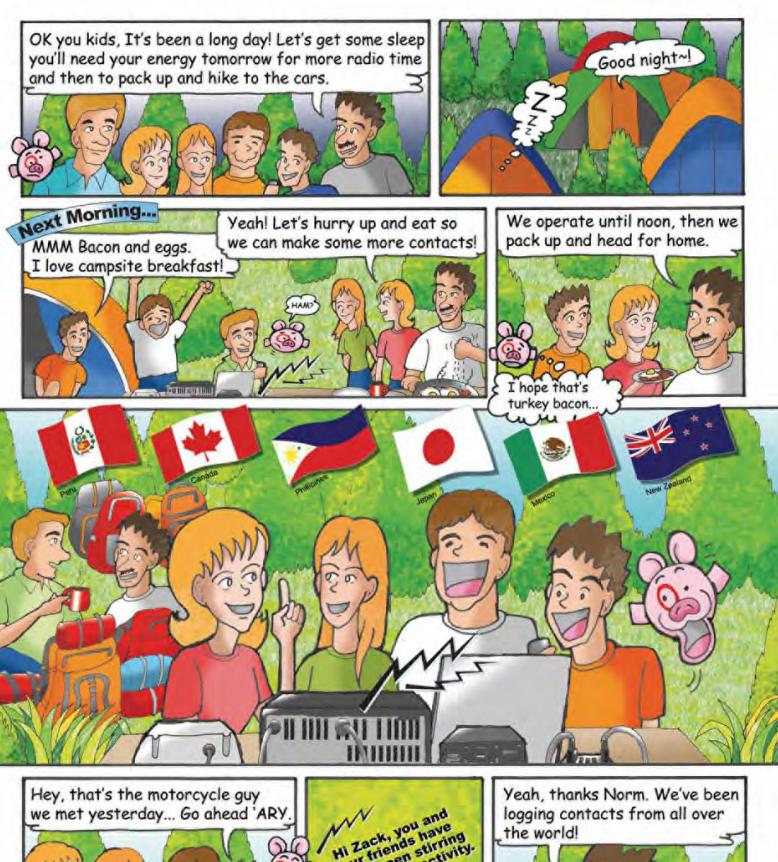


















A snap shot gallery of real DX peditions with real DX'ers.



ZL8R: 40,000+ QS0s in just over a week....

DX'ing the way it should be. For the love of ham radio.





BS7H: 45,000+ QS0s in just over a week....



IC-756PROIII Where to next?

The DX'ers rig of choice.



