

About the Story

In this fourth volume of the Adventures of Zack and Max comic book series, Icom America once again turned to the students from the Lake Washington Ham Club at Ben Franklin Elementary in Kirkland, Washington. The kids and their club leader, Dave Condon, KI7YP, conceptualized and wrote most of the story, which was loosely based on the club's own experiences during its 2005 Field Day exercise. Every year on the fourth full weekend of June, amateur radio operators throughout the Western Hemisphere (IARU Region 2) attempt to make as many radio contacts as possible using all forms of ham radio equipment.

We would like to thank once again our illustrator, Kayoko Nakajima, who brings our stories to life every year with her wonderful drawings! We hope you'll enjoy this book and that it inspires you to participate in your own annual Field Day exercise. To find an event near you, contact your local ham radio club. You'll find a list of clubs near you on the American Radio Relay League (ARRL) Website: www.arrl.org.

Written By

The students of the Lake Washington Ham Club

Special Writer Recognition

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Acknowledgements

Ray Novak, N9JA, Division Manager Amateur Products, Icom America Inc. Kayoko Nakajima, professional cartoonist and illustrator Lieutenant Charles Gorman, W7CEG, Redmond, Washington Police Department Redmond Washington ARES (Amateur Radio Emergency Service) Group Kirkland Washington ARES (Amateur Radio Emergency Service) Group Conrad Thompson, N7DUO

Maureen Blomgren, KD7QDZ, Icom America Inc.
Parents of the students of the Lake Washington Ham Club, KC70IO
Dave Condon, KI7YP, teacher, Lake Washington School District

Photos of Field Day 2005-Lake Washington Ham Club

Pictured below are (from left to right): sign in; Max and friends; the GOTA Station; group photo; instructions; writing the story during time off; and the pot luck dinner.







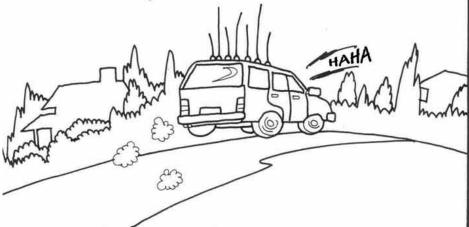








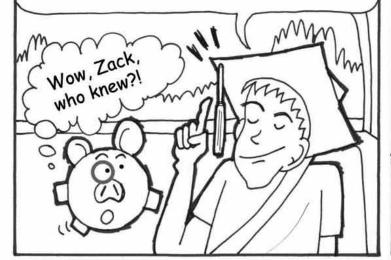
Early one Saturday morning, a week before Field Day, Mady and Zack are on their way to the Field Day Planning Meeting with Mady's dad...





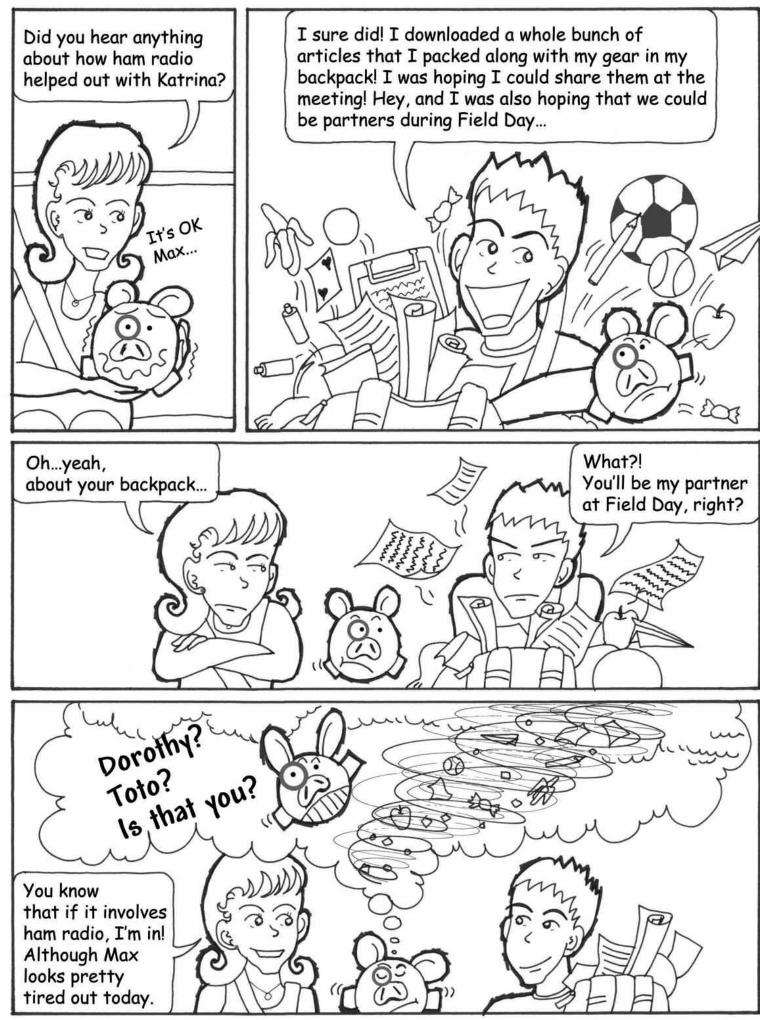


Yup, but I was wrong. Field Day is a practice emergency drill; our radio contacts might be only a town away, or be thousands of miles away.



That's right! Ham radio can help out not only if the power goes down, or if there's a tornado, but also with other disasters too, like tsunamis, earthquakes and with hurricanes, like Katrina.





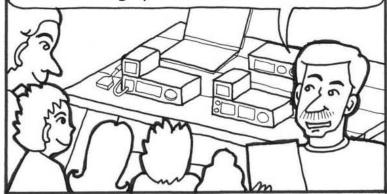


Hey everyone, my name is Charlie Gorman, W7CEG. Thanks for coming to our annual Field Day meeting! Now as most of you know, the object of Field Day is to test our emergency preparedness and make as many contacts as possible during a 24-hour period.



- 1. Dress for the weather, bring extra sweatshirts, rain gear if needed, and extra dry clothes
 2. A tent!
 3. Sleeping bag, blankets and pillows
 4. Food and snacks, also bring a dish
- 4. Food and snacks, also bring a dish to share for our evening pot luck Something to cook with, and utensils 6. Water
- 7. Charged batteries for your radio
- 8. Your radio and a Repeater Directory 10. Paper and pen
- 11. Antenna, power supply, CW keyer, 12. A laptop, if you have one, and logging software
- 13. Games and sports equipment
- 14. Camera
- 15. Any gear you think we will need, check with Charlie

Any questions?... Okay, I'll continue. We are going to have 4 different types of stations; an HF, VHF, QRP, and Satellite. Kids! How about setting up a GOTA station?





Oh, wait a minute; it looks like some of the kids are confused.





It's all right, Max... Sorry, Mr. Gorman, can you help explain what's a GOTA station?





Get On The Air.

This is a special station for new hams to help them get started.

For the GOTA station we will use the call sign of KC70IO, and for the other stations we will use the call sign KI7YP. *



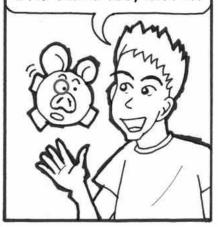
Excuse me again, but can we go over what all the different radios do?



Sure! At the HF station we'll use the Icom 718. This is a world-wide radio, from 160 meters up to 10 meters. HF means High Frequency, and we can talk all around the world.



Yeah, but what about the '756PROIII? It's a HF radio too, isn't it?

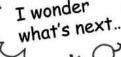


Yes, and it will also be at the HF station. The '756PROIII has DIGITAL filters in it. The signal it sends to other radios is very clear, and it can receive radio stations that many other radios can't.

At the QRP station, we'll use the IC-703. QRP operation means transmitting at reduced power levels. A QRP radio puts out very little power. It usually runs on batteries, or even solar power! It is very portable, and is often taken on camping trips or hikes into the mountains by hams.



I wonder

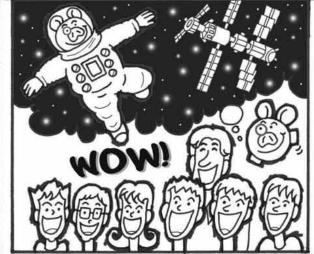




And this radio is both UHF, or Ultra High Frequency and VHF, Very High Frequency. We will use the IC-910H to make contacts with other radio stations

> through space satellites. In addition, we will try to talk with the astronauts on the International Space Station.*





Well, now that we've got that settled, we should set up some committees. We'll need someone to head the antenna committee.



We need someone in charge of a public information committee...



We need someone in charge of a committee for band control...

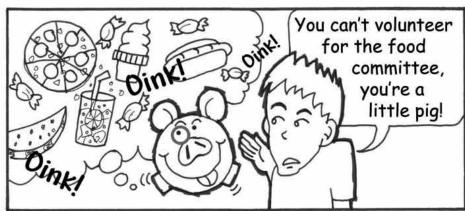


And lastly, we need someone in charge of another committee for food & games.



Great! Lots of volunteers!





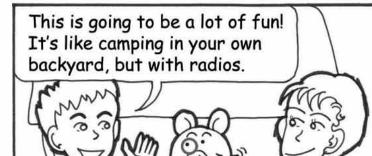




Excellent! We have our committees and our radios figured out. I'd like to thank all of you for coming out and joining in the fun! Have a good rest of the weekend.

I'll see you all next weekend at Field Day!





It sounds as if we're going to have free time when we're off duty. We should bring a soccer ball and maybe a Frisbee®...



Yes, Max, I think we should bring hot chocolate mix, and marshmallows!



We could roast hot dogs, or even make those little pigs in a blanket!



Oinki?
Pigs in a blanket?

...maybe not. How about hamburgers?



Yeah, that sounds much better!



When we get back to your house, let's make a list of everything we need!

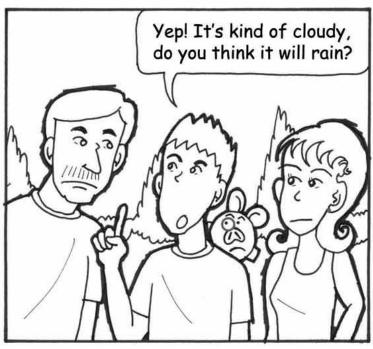


I've already started making our







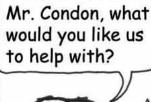






I didn't hear that! It's never







Well, right now, would you like to help set up the antennas? It involves the sport called tree fishing.

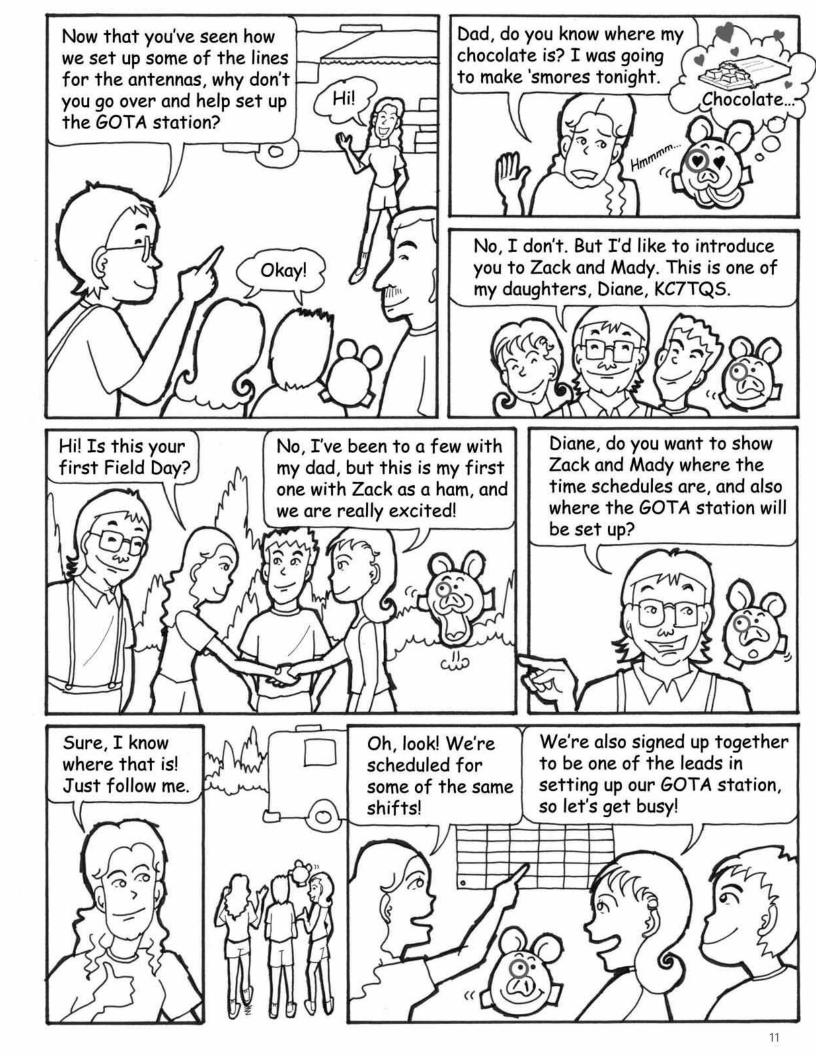




Ha-ha, I'll show you what I mean.











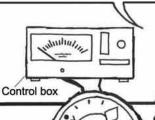
For this station, we will use magnetic north as our reference point to orient the antenna. That way, we know the meter on the rotor controller is accurately telling us where the antenna is pointed.







The antenna rotor turns the antenna, and the antenna rotor is controlled by the rotor control box.

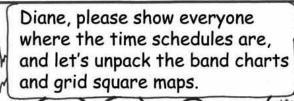


Once the antenna rotor and the rotor control box are set to "O", we install the antenna and aim it north! So, let's find north









and get my laptop ready. Mady, please hand out log books...

Zack & Max, bring my toolbox. Make sure we've got the tape measure and the mallet!

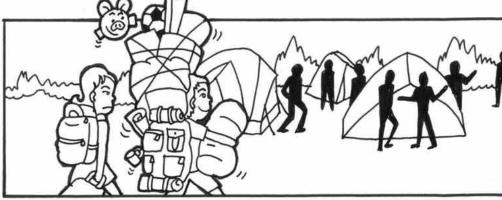






Zack, lets get our tents set up before we start talking on the radio.



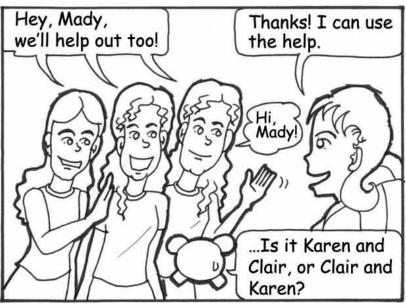


Mady, we'll all help you set up your tent. It's the least we can do for all the work you did at the GOTA station! We are so glad you are here this year!







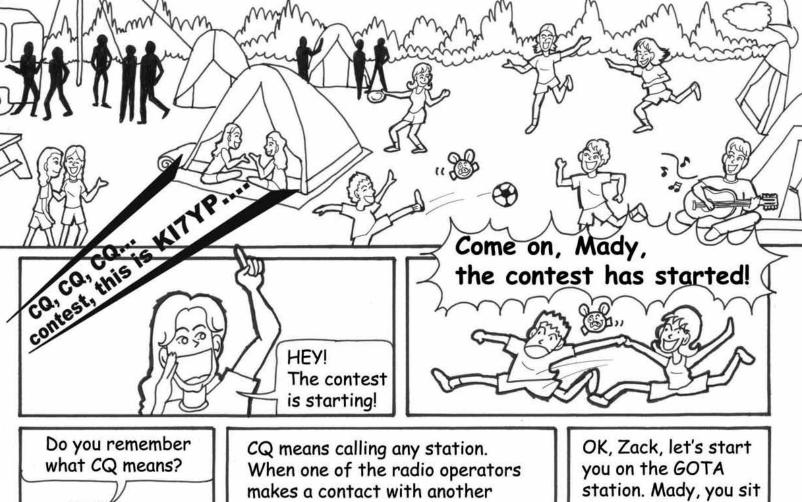








Bobby and I will help too, and here comes





radio station they both exchange information like the contest call sign, their location, and the classification of the radio stations.





Field Day can be a little nerve wracking at first, so I've prepared over first, and then let's start.



GOTA SCRIPT:

1. "CQ Field Day, CQ Field Day, this is KC7010, Kilo Charlie 7, Oscar India Oscar calling CQ Field Day and listening."

Then someone calling in will use your station's call sign followed

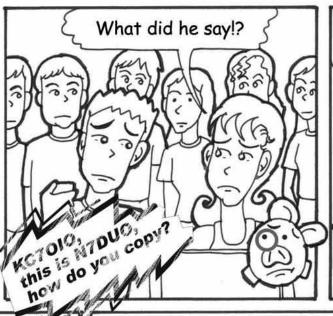
3. Record this as a contact. 4. Don't forget that people will use words and numbers together to

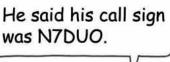
help make their call sign easy to understand. 5. To make a contact, listen for the Radio Station's call, and then answer back with

as they finish, answer back with and then your and then your and then yours and "how do you copy?" 6. Don't forget to be polite and say:
"Thank you" or give a big "73" which
is a ham's way of saying the same thing.

OK, here goes: CQ Field Day, CQ Field Day, this is KC70IO, Kilo Charlie 7 Oscar India Oscar calling CQ Field Day and listening.











Well, Zack, with your handheld radio you talk on VHF, which gives a very clear voice pattern. Here, you are talking on HF where the radio waves are much longer, and can make voices sound funny. As you listen to people talk on HF, you will soon be able to understand what they say. Speak very clearly and try again!



CQ Field Day
CQ Field Day
this is KC7010
Kilo Charlie 7
Oscar India
Oscar calling
CQ Field Day
and listening.



November 7
Delta Uniform
Oscar, thank
you, you're
coming in clear!
73 from Kilo
Charlie 7 Oscar
India Oscar!



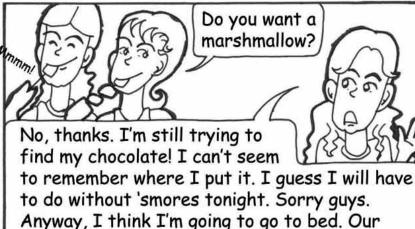






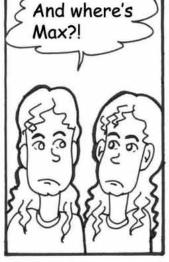






shift is early in the morning. Good night!

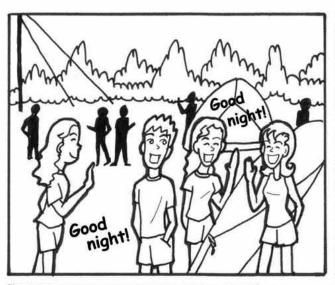


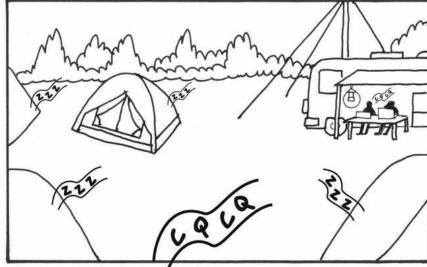




We have to be on the air at 2:00 AM.

And we want to talk even farther then our first shift!



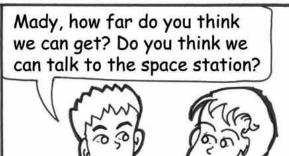








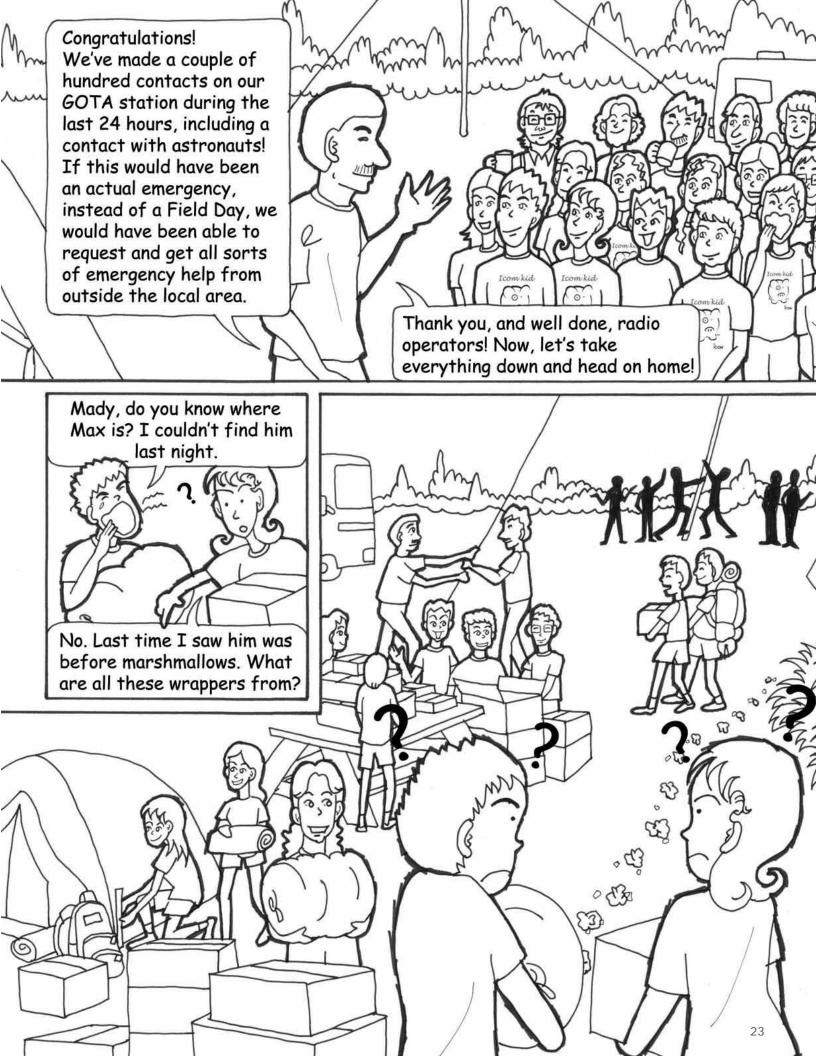








•Eligibillity: Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within I ARU Region 2. See: http://www.iaru-region2.org/.











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