

Welcome to the World of Ham Radio!

Thank you for your interest the next volume of The Adventures of Zack and Max - Lost In Seattle. This story provides you with basic information about new advancements in the hobby, new products, applications, and relevance of ham radio today.

About Icom Inc.

Icom Inc., founded by Tokuzo Inoue, JA3FA, is a worldwide leading manufacturer of amateur and other radio equipment. Headquartered in Osaka, Japan, Icom entered the radio business over 45 years ago, creating some of the first transistorized amateur radio transceivers. Today, Icom is proud to continue its advancement of the hobby by offering a wide range of amateur radios — from cutting-edge, digital technology base transceivers to innovative handheld radios. Icom is always working to improve its products by employing the latest technology, listening to customer suggestions, and drawing from experience in the radio industry.

About the Story

Lost In Seattle is a very special volume. The story was created by the kids in the 4th grade at Ben Franklin elementary school in Kirkland, WA and the Lake Washington HAM Club, KC7010, who also meet at the same school.

Mr. Dave Condon KI7YP, an elementary teacher and mentor for the Lake Washington HAM Club, had his 4th grade class create this wonderful tale about using amateur radio to help find a lost friend.

The students enthusiastically tackled the writing by organizing themselves into groups with a project manager and editor. They had the 5th and 6th grade members of the Lake Washington HAM Club KC7010 proof the text.

The photos on the right give a snap shot look into how the students put together the story. From left to right, top to bottom:

- a. the project manager
- b. the editor
- c. & d. the writing group, who would go over the many versions and keep the story boards up to date
- e. science and research
- f. & h. the art group who helped us with ideas for how the comic book should look
- a. the transcription group
- i. & j. pictures of Katrina and Josh, HAM Club members who assisted in the story and lent their names and call signs.

We also want to thank Anna Veltkamp, a member of Mr. Condon's class, for the poem she contributed at the end of the story about Max the pig.

At Icom America, we had fun producing a truly remarkable story. We want to thank Mr. Condon, his 4th grade class, and the Lake Washington HAM Club for a iob well done!

The comic book was once again beautifully illustrated by Kayoko Nakajima, a professional cartoonist living in the Seattle area.

All call signs used in this story are real and are used with permission.

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All characters are purely imaginary and any resemblance to any real person, living or dead, is entirely coincidental.











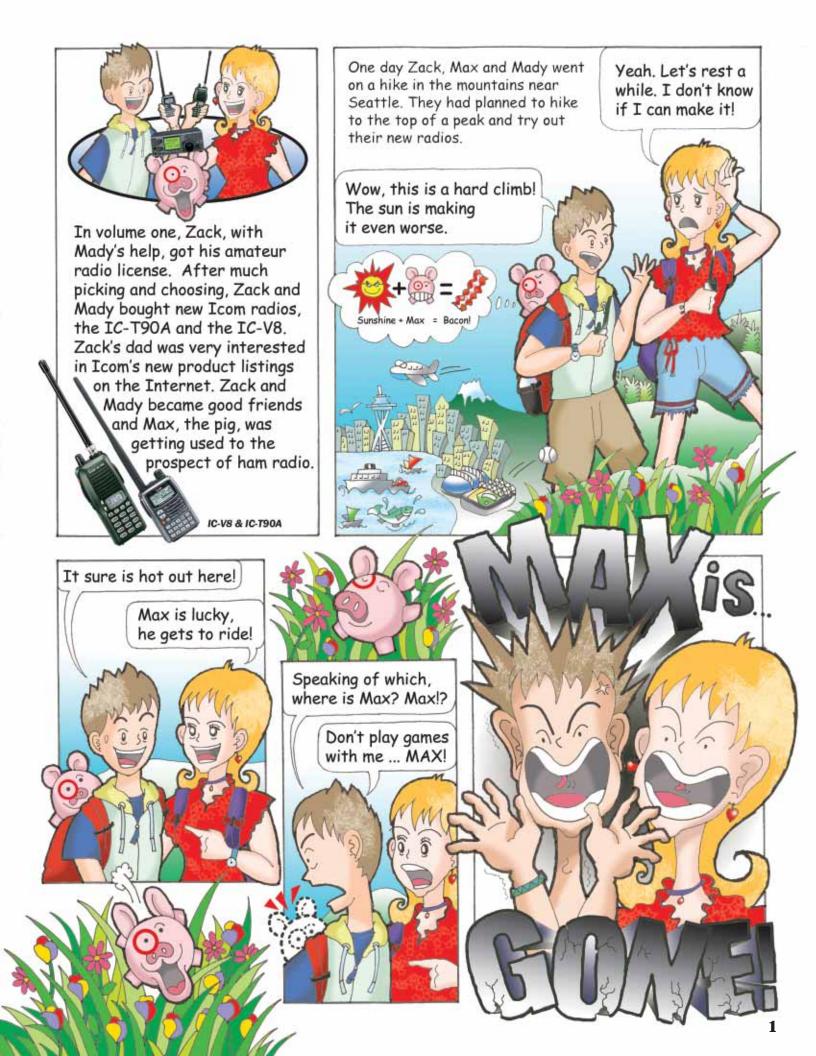


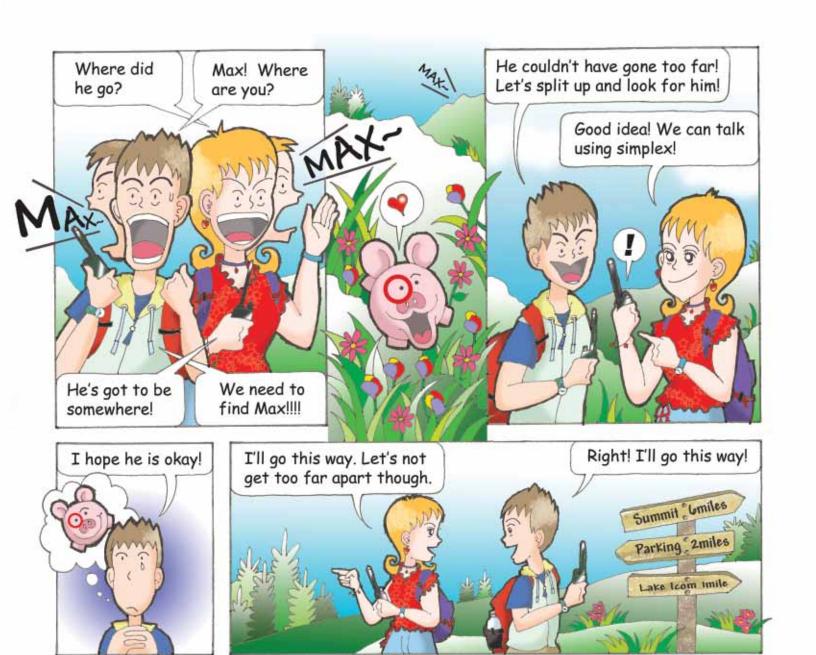


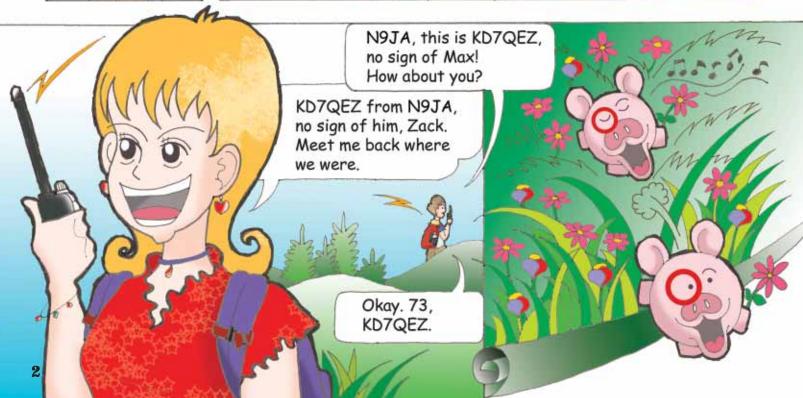


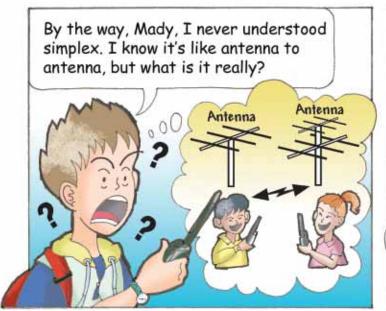


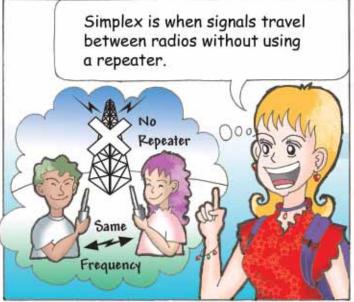


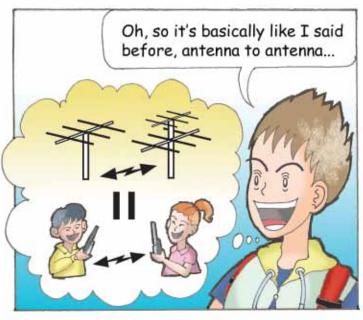




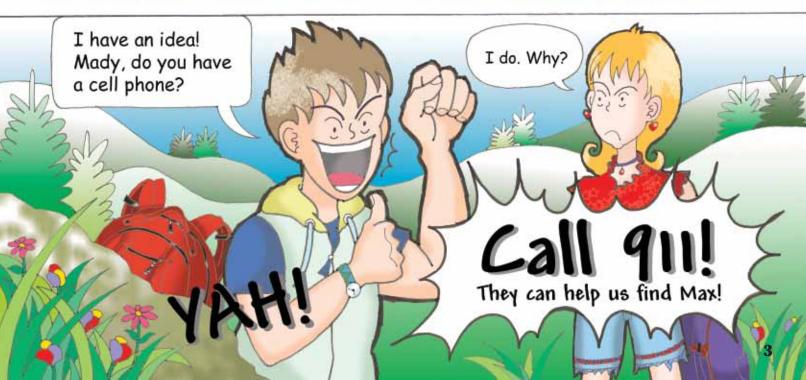














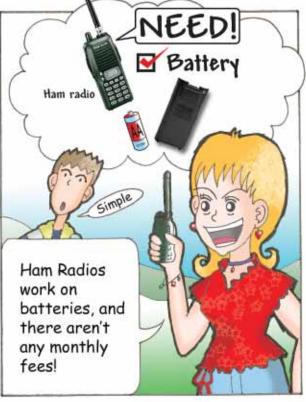


Maybe I forgot to pay my monthly cell phone bill, or perhaps we are out of range. Cell phones only work if there is a cell phone tower nearby. Do you see any?!

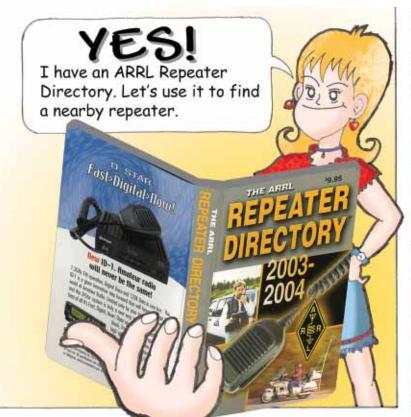


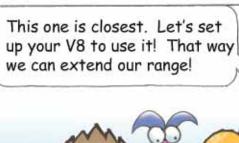




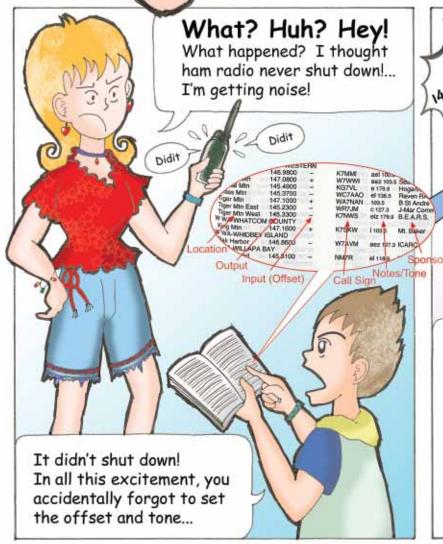






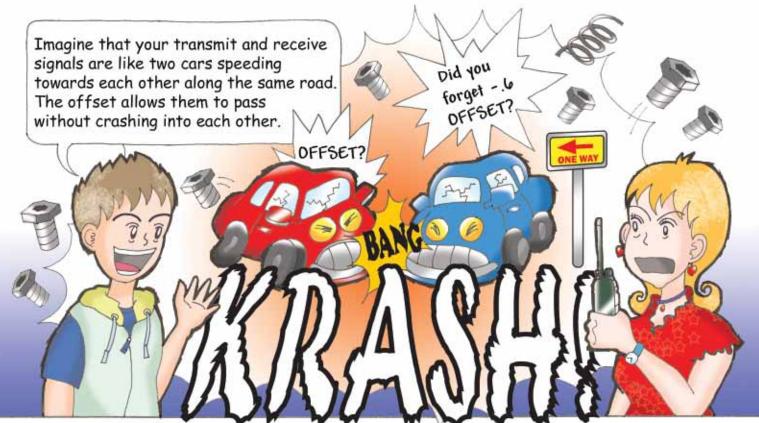






MUST BE Offset MUST BE Without the right access tone, you won't be able to get on the repeater. If you don't offset your transmit and receive frequencies, the signals will collide. Let me give you some examples

of how this works.





















Some repeaters are even inter connected over the Internet. For example, my Aunt Stacy is a Ham and lives in Oklahoma.

I can talk to her on my handheld,
using IRLP to link a repeater
near me to a repeater near her.
The Internet serves as a
communications backbone.
Aunt Stacey lives in Enid
OK, near an IRLP node. It's
like a chat room, or instant
messaging... it is lots of fun!























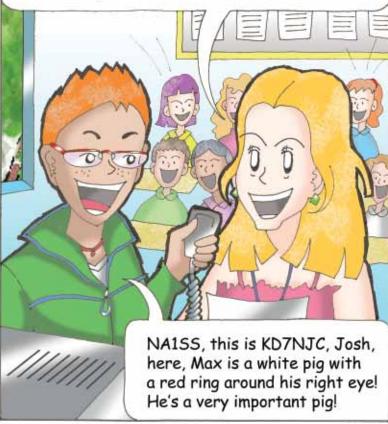


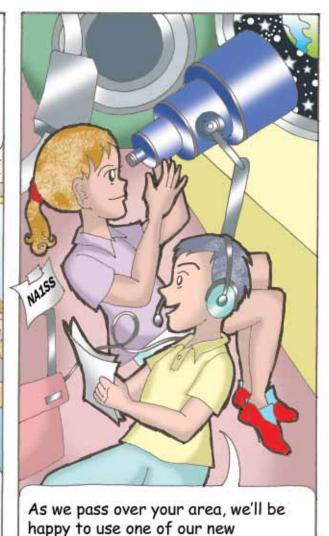
Josh, this is Sara! We'll ask the astronauts if they can help! The ISS will be passing overhead soon... As you know, we had to submit our questions to the astronauts in advance, but since this is an emergency it'll be all right. 73, K3000.



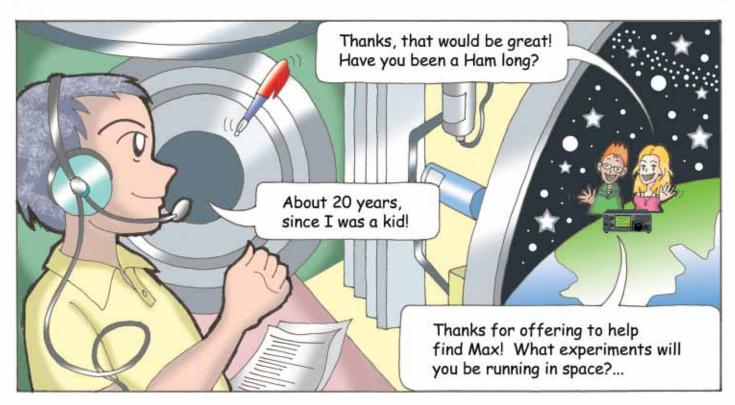


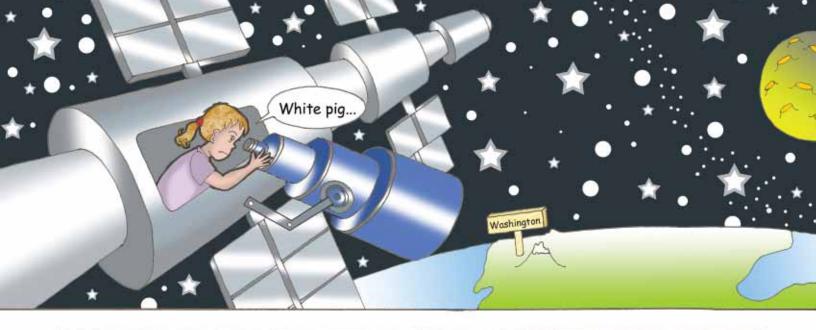
NA1SS, this is K3000, my name is Sara, we had a list of questions for you, but we need your help in finding our lost friend. He's a pig, and he was last seen near Seattle, Washington. Let me have my friend Josh, KD7NJC, give you his description. Go ahead Josh!





telescopes to see if we can spot Max!





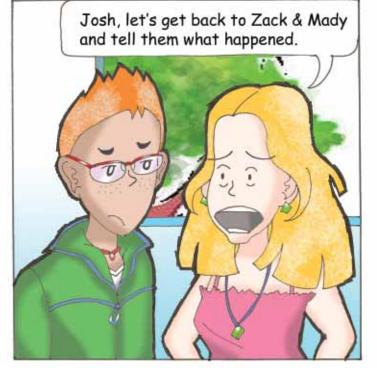
...Thanks kids for all of your questions! We're passing out of your zone now, we couldn't find Max! Good luck. 73, NA1SS.





All right kids, have your logs filled out by tomorrow so we can file our final report to NASA... Sara and Josh, I expect you to help fill out our on-line report...









This is K3000. Zack, we contacted the ISS and they used one of their high powered telescopes, but they couldn't spot Max!







For our direct contact today we used all the equipment that the ARISS (Amateur Radio International Space Station) program required.



The IC-910H is a transceiver that, if set up right, I can use to communicate through ham radio satellites, or even to communicate with ham astronauts on the ISS.





First I need to select the VFO mode by pushing the "V/M 1" button, and then I push the "A/B 3" button which lets me select VFO "A"..... Then I push and hold the Band button marked "M/S" to select 2 meters as the main band.....I enter in "145.800 FM" and then hit the "F-INP ENT" button....then I push the "A/B 3" button again to select the VFO "B"...I enter "144.490 FM" hit the "F-INP ENT" button and then press the "SPLIT" button...You then receive on 145.800 and transmit on 144.490.... When you get back we should get together and I can show you how this all works! It's really fun!

Wow! That's amazing! Let's do it when I get back! Thanks for calling the ISS and for checking back! Bye for now, 73, KD7QEZ!



The IC-910H is really cool, but even with all those people looking, we still haven't found Max!



Icom's come out with a D-Star radio. It could help us find Max!

What's D-Star? How does it work?

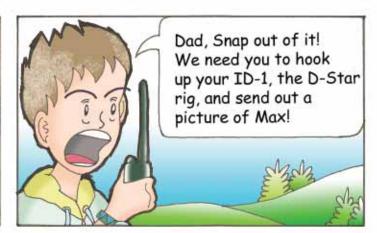
Well, you know how you can take a digital picture and place it on the Web? O.K., with a D-Star radio, you can do that from anywhere you don't need an ethernet connection. We could take a picture of Max, use the ID-1 rig to send it back to my house, and send it out all over the Internet where everyone can see it!





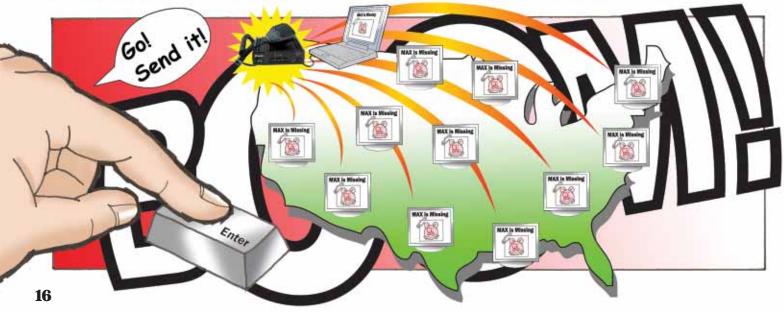


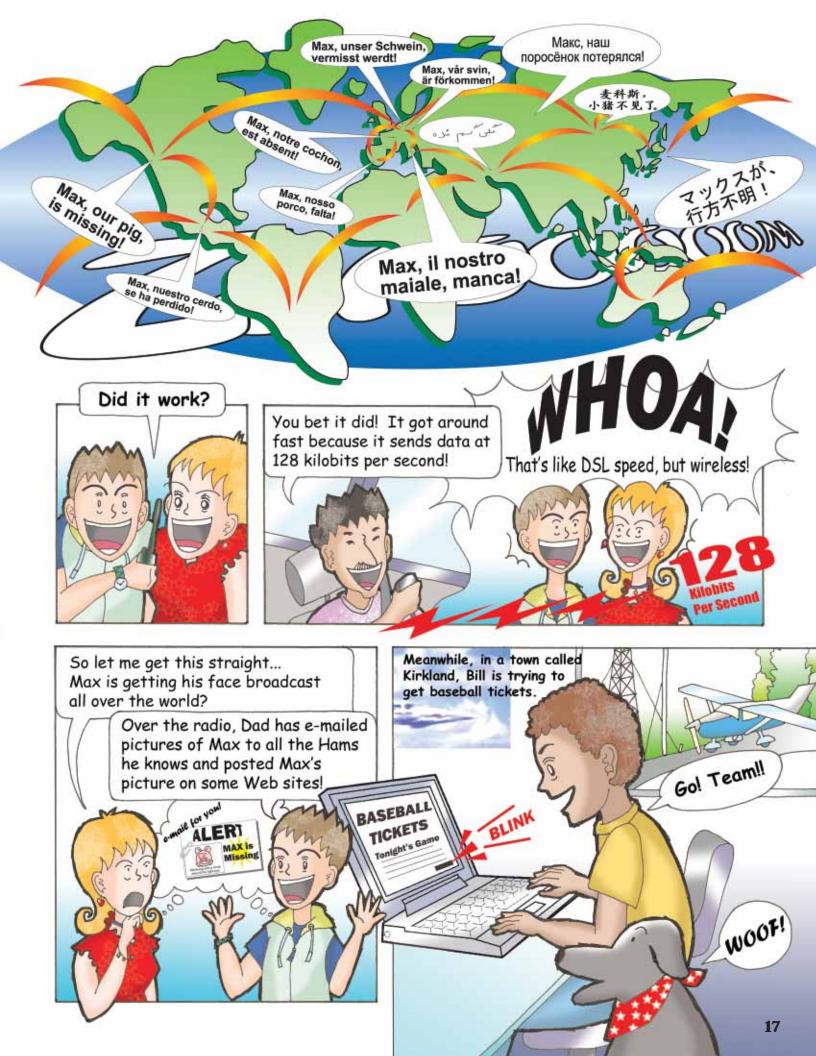




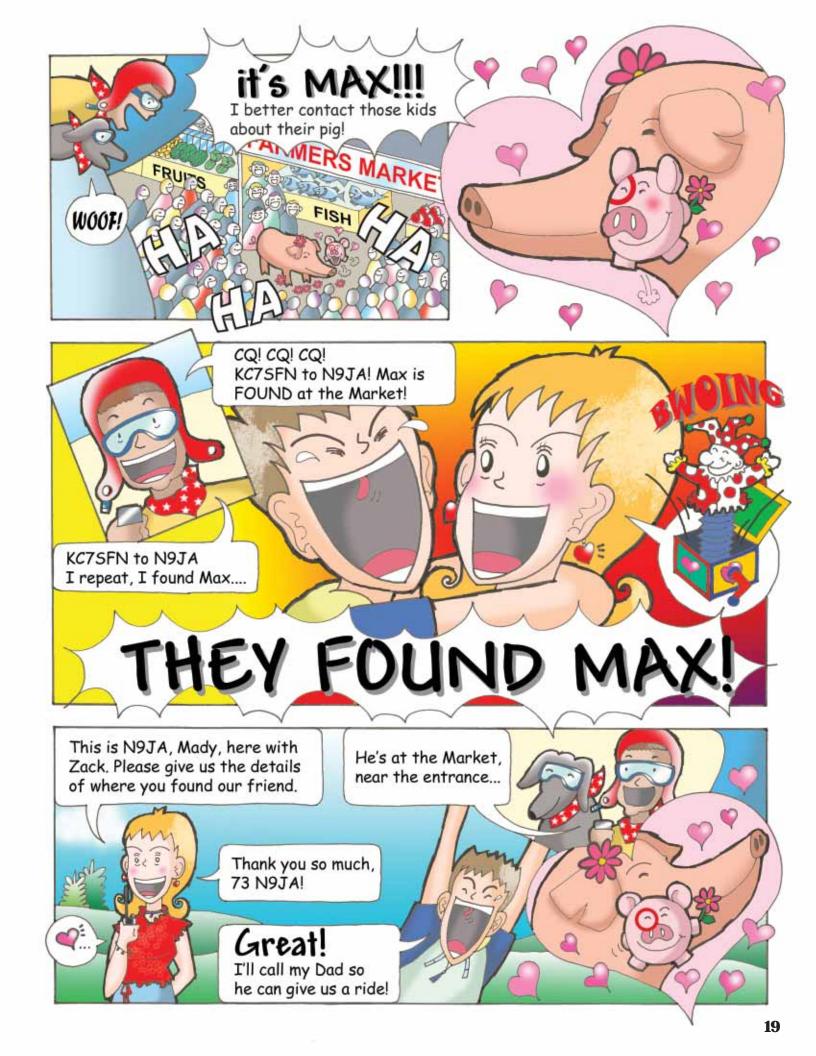




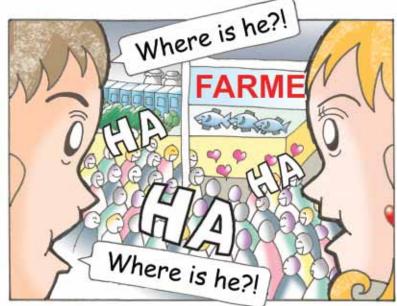






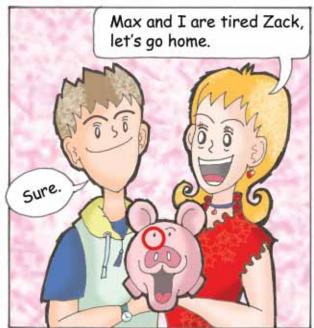




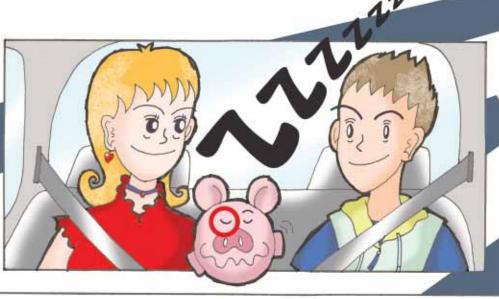








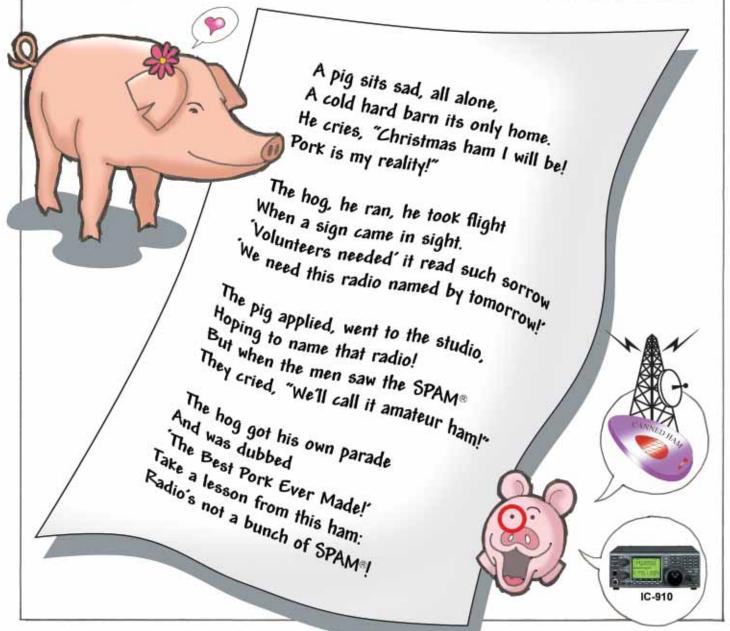
* When you send the Morse code letters "H" and "I" twice in a row, it sounds like laughter on the other end. dit-dit-dit-dit-dit-dit-dit-dit-dit-dit.



Zack and Mady were able to persuade Max to say "good-bye" to his new love.

Max was glad to be home but still missed the shiny, bronze piggy.

A few days after Max went home a note was discovered beside his lost love. It read:



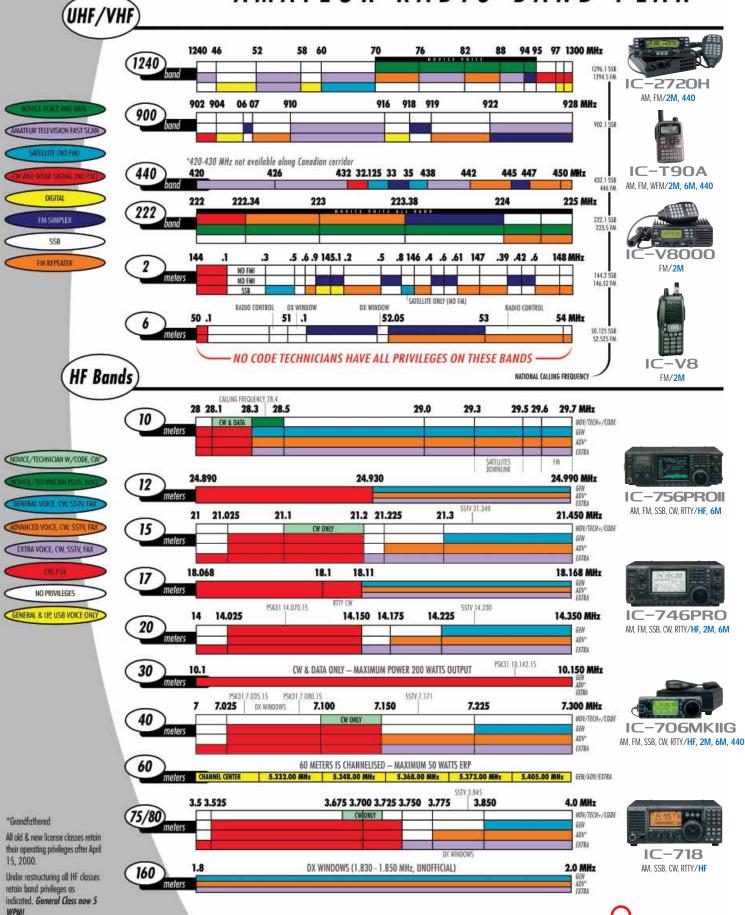
NOTES



NOTES



AMATEUR RADIO BAND PLAN





Developed by Gardon West (WB6NOA) Radio School, Inc., for

exclusive use by Icom America Inc.

Here's where you can learn more about how to become a licensed ham radio operator:

American Radio Relay League (ARRL)

www.arrl.ora 1-800-32NEWHAM

The ARRL provides information for anyone interested in amateur Radio. Through books, tapes, maps, and a list of ARRL-affiliated ham clubs, you will be able to find the answers to all your questions about amateur Radio.

Gordon West Radio School

1-714-549-5000

E-mail: wb6noa@arrl.net

Gordon West teaches evening ham radio classes and offers weekend ham radio licensing seminars on a monthly schedule.

Other Sources

Check with your school's science teacher, school librarian, or your local public library.

Here's where you can learn more about amateur radio and purchase Icom radios in the U.S.

ALABAMA

GigaParts, Inc. Huntsville, AL • 256-535-4442

ARIZONA

Ham Radio Outlet Phoenix, AZ • 602-242-3515

P.A.C.E.

Tucson, AZ • 520-888-3333

CALIFORNIA

Ham Radio Outlet Anaheim, CA • 714-533-7373

Ham Radio Outlet Burbank, CA • 818-842-1786

Ham Radio Outlet Oakland, CA • 510-534-5757

Ham Radio Outlet San Diego, CA • 858-560-4900

Ham Radio Outlet Sunnyvale, CA • 408-736-9496

Jun's Electronics Culver City, CA • 310-390-8003

COLORADO

Ham Radio Outlet Denver, CO • 303-745-7373

CONNECTICUT

Lentini Communications Newington, CT • 860-666-6227

DELAWARE

Ham Radio Outlet Newcastle, DE • 302-322-7092

FLORIDA

Orlando, FL • 407-894-3238

Cedar Distributors (Export) Miami, FL • 305-597-3090

Eli's Amateur Radio Ft. Lauderdale, FL • 954-525-0103

Mike's Flectronics Ft. Lauderdale, FL • 954-491-7110

Portable Communication (Export) Hialeah, FL • 305-822-2258

RF Components (Export) Miami. FL • 305-597-9269

YV-5 Communications (Export) Miami, FL • 305-577-9960

GEORGIA

Ham Radio Outlet Atlanta, GA • 770-263-0700

Ross Distributing Co. Preston, ID • 208-852-0830

INDIANA

Ham Station Evansville, IN • 812-422-0231

KANSAS

Associated Radio Communications Overland Park, KS • 913-381-5900

MICHIGAN

ComDaC Radio St. Joseph, MI • 616-982-0404

MINNESOTA

Radio City, Inc. Mounds View, MN • 763-786-4475

MISSOURI

Gateway Electronics St. Louis. MO • 314-427-6116

MONTANA

AmCom Lake Side, MT • 406-884-3052

NORTH CAROLINA

Communications Headquarters Wilmington, NC • 910-791-8885

NEVADA

AFS I

Las Vegas, NV • 702-647-3114

NEW HAMPSHIRE

Ham Radio Outlet Salem, NH • 603-898-3750

NEW JERSEY

KII Flectronics Caldwell, NJ • 973-364-1930

NEW YORK

Barry Electronics New York, NY ● 212-420-0500

OHIO

Wickliffe, OH • 440-585-7388

R &L Electronics Hamilton, OH • 513-868-6399

Universal Radio Inc. Reynoldsburg, OH • 614-866-4267

OREGON

Ham Radio Outlet Portland, OR • 503-598-0555 WASHINGTON

Arlington, WA • 360-403-4840

Milwaukee, WI • 414-358-4088

Alf Enterprises

WISCONSIN

SOUTH DAKOTA

Burghardt Amateur Elect. Watertown, SD • 605-886-7314

TENNESSEE

CT Morgan

Chattanooga, TN • 423-629-7911

Memphis Amateur Electronics Memphis, TN • 901-683-9125

Austin Amateur Radio Supply Austin, TX • 512-454-2994

Houston Amateur Radio Supply Spring, TX • 281-355-7373

KComm. Inc. San Antonio, TX • 210-344-3311

Rad-Com Radio Lubbock, TX • 806-792-3669

Texas Towers Plano, TX • 972-422-7306

UTAH

Communication Products Midvale, UT • 801-567-9944

VIRGINIA

Ham Radio Outlet Woodbridge, VA • 703-490-4664



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