

WRC UPDATE

- APRIL -

APRIL 20, 2005

**RADIO AMATEURS SERVING
THE WESTERN COMMUNITIES OF
PALM BEACH COUNTY, FLORIDA**

**REMEMBER TO 2-0-0-M IN
ON THE PHOTOS... 200%-300% RECOMMENDED**



**MEETING: Monday - May 2nd - 7:30pm
Wellington Community Center**

SAFER COMMUNITIES WITH VOLUNTEERS & COMMUNICATORS

The ARRL in 2003 forged a national relationship with the Homeland Security Agency. But on the community level, communicators fend for themselves.

Lt. Jeff Lindskoog, spearheads Wellington's volunteer emergency response groups. He will talk about the increasingly important roles these two groups play in our more complex world and particularly in the Western Communities. [MAP PG 5](#)



NEW TOWER SHELTER AND EOC COM ROOM - PG 2

**<> DIGITAL MODE WORKSHOP <>
MORSE CODE CLASSES <> SKYWARN TRAINING
WELLINGTON PUBLIC SAFETY DAY <> FIELD DAY
PAGE 3**

WRC MEMBER RESOURCE PROFILES - PAGE 4

PHOTO SUMMARY: DIABETES WALK - PAGE 5

**A HEADS UP... NEAR EARTH ASTEROID
APPROACHES MAY 24TH - PAGE 6**

PROPAGATION: PHIL HK3SA ON HF CONDITIONS - PG 6

PHOTO SUMMARY-APRIL MEETING: "BUT WHAT IF THE INTERNET FAILS?"



Doug WB4KGY and John WB4MOZ provided a practical introduction into how to bypass failed internet access points by radio. There was also an impressive demonstration using a relatively simple battery powered station.

The presentation got off to a slow start because the video projector refused to work with John's laptop... until Dick WB2NBU simply pushed the right projector button! That's the moment captured in this photo.

Thanks Doug & John... and Dick!

OLD PHENOMENA? CELLPHONE SIMPLIFIES COAX TESTING... REPLACES COSTLY ANTENNA ANALYZERS

True stories abound about silver amalgam dental fillings permitting people to directly "hear" radio broadcasts. Recently, another phenomena

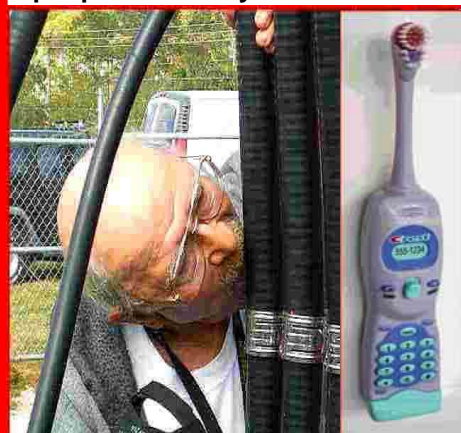
that causes teeth to act as RF detectors was accidentally discovered.

A newly introduced "Toothbrush Phone" has soft but conductive, spaceage carbon bristles that are part of its antenna. While brushing, teeth become RF sensitized and effectively increase the antenna's capture area!

As often happens, hams come up with new applications for technical advances... including this one. The procedure for coax testing is simple as Larry KS4NB demonstrates. After sensitizing your teeth, you sandwich the

coax between his teeth. Then feed an RF carrier, modulated with a 1000 Hertz tone, into the transmission line. The tone's loudness is directly proportional to standing waves. When no tone heard there's a perfect match. A loud tone means high SWR... a sure sign of bad coax, connectors or antenna.

This cellphone was meant to appeal to brush-a-holics and people constantly on the phone... morning, noon & night. It was a flop, but ideal for hams with skeds just after waking up or at bed-time. Buy it on Ebay for as little as \$49.99 or for more info go to: WWW.APRILFOOLS.COM



IMPROVED PREPAREDNESS & EMERGENCY OPERATIONS

MODERN TOWER SHELTER TO HOUSE WRC REPEATERS

Many WRC members have visited the Village tower site to learn about our repeater systems and what a tower site is like. In our case, the current equipment shelter leaves a lot to be desired. The cramped, 27 year-old fiberglass structure has rotting wood floors and smoke stained walls after numerous lightning strikes.



Right: The interior is about 50% larger than the old shelter. WRC radio equipment and a large backup battery bank will be located along the ten foot west wall. All WRC equipment will be connected to the common copper ground plate on the left. Both 120 and 240VAC outlets will be available with separate circuit breakers for each repeater. Two air conditioners are in place to ensure continuous environmental control. The entire building is alarm wired for temperature, power and security. Plentiful cable trays are overhead to facilitate wiring.



Its electrical and ground systems have been upgraded a number of times... but still are not what they should be. That's all about to change.

By May 16th, an up-to-date concrete shelter will house both Village and WRC communications systems.

Left: The modern concrete shelter, right, is now being prepared for the Village by contractors. The old structure will be replaced by another identical prefab unit to be occupied by NEXTEL. The grounding system is extensive. A ground "ring" is buried around the building and connected to the tower's main ground field. All metallic surfaces on the structure, the foundation's rebar and cable trays are connected to the ring's ground rods. All dozen or so coax hardlines have surge protectors mounted on copper ground bars. Outside lighting with remote sensors will cover the entire area.

NEW EOC COMMUNICATIONS ROOM PLANNED EOC ANNEX DEDICATED

From the photo below you can see how congested the Wellington EOC was during the last Hurricane Season. To improve emergency operations, the EOC Annex in Village Park (see map pg. 5) has been setup to house Public Works field personnel and other Village personnel.

Also in progress is the relocation of the Communications Section from the "bull pen." Because of the congestion, the number of volunteer communicators was severely restricted and the room was often very noisy. Those conditions have been corrected with the relocation of the communications section to its own spacious, quiet room (behind the door on left in photo below).



MARK YOUR CALENDERS!

65+ Days To Field Day... June 25/26

NOW is the time to volunteer for Field Day!

Consider being a leader!

Let Larry KS4NB, **385-2986** know when you can attend and what you would like to handle.

Wellington Public Safety Day At Village Park

Saturday - May 14nd - 8:30am Setup

**Bring the family! See the Traumahawk
and other PBSO special equipment.**

The WRC will have its

**Lost Children & Communications Booth
and will be offering Child ID Kits...**

free to the public.

Let Larry KS4NB, **385-2986** know if you can volunteer.

JUPITER FARMS CERT AND THE JUPITER-TEQUESTA REPEATER GROUP MORSE CODE TRAINING

FREE CLASSES

Tuesdays & Thursdays - 4/26 thru 5/11 - 7 to 9PM

Quarterly Exam follows on May 17th at 6:30PM

Contact Al Moreshi AG3BV for details

(561) 746--7421 ag4bv@arri.net



**"I thought your resume said
you did 40 words a minute?"**

Melissa KE4WBQ
PBC SKYWARN Coordinator

Announces SKYWARN TRAINING

**Conducted by the
National Weather Service
June 4th - Saturday - Noon to 2pm**

at the PBC EOC.

No reservations or preregistration needed.

Jim Lushine will be the instructor.

If you have any questions or need more info,

Melissa can be reached at 304-3126 or

email at ke4wbq@bellsouth.net

SlowScanTVTeletypePSK31Packet RadioEmailAmtorAPRSFutureModes

**Here Is a Painless,
Step-By-Step, Inexpensive Opportunity
to Get Started In The Digital World...**

An Entry Level Digital Mode Workshop For New Hams and The Digiphobic Session 2- the Interface & Radio

**Whether Used on HF or VHF/UHF, The Digital Modes
of Operation Are No Longer On The Fringes Of Ham
Radio. The Future of Our Great Hobby May Well
Depend Upon How Well We Develop Them to Serve
the Needs of Our Country and to Attract New People.**

SESSION 2 CONTENT:

**Building, adjusting and using an effective \$10
interface with a handheld, mobile or hf station radio.**

**Session 2 Workshop Is Open to All
Saturday April 30 - 9am to Noon**

**But Limited to 10 People...WRC Members Given Priority
RSVP by Email, at the WRC April meeting and on the air.**

larry33414@aol.com

THE WRC RESOURCE GUIDE: A SERVICE FOR MEMBERS, FRIENDS AND SUPPORTERS... ZOOM IN!

THIS SECTION IS A SERVICE TO MEMBERS, FRIENDS AND SUPPORTERS WISHING TO MAKE THEMSELVES KNOWN AND AVAILABLE TO ASSIST OTHERS. BY BEING ON THIS PAGE, THEY PLEDGE TO PROVIDE SERVICES AND/OR GOODS WITH INTEGRITY AND THE HIGHEST STANDARDS OF THEIR PROFESSIONS.

RHONDA SHOUMATE
REALTOR ASSOCIATE
MIRSKY REALTY GROUP



K4VGA KA4HAV
Members

TEC SHOUMATE
GENERAL CONTRACTOR
SHOUMATE CONSTRUCTION
LIC # CGC 014490

TEC'S OFFICE:
(561) 697-3636

HOME PHONE & FAX: (561) 683-1297

RHONDA'S PALM BEACH OFFICE:
(561) 628-3525
FAX (561) 655-8223

**WRC MEMBERS...
LET WRC READERS
KNOW A BIT MORE
ABOUT YOU.
YOUR INSERTION IN
THIS SECTION IS FREE!**



W4NRS-Member

NORMAN JEWELER
PRESIDENT
**UNITED STATES
ANTENNA PRODUCTS, LLC**
**UNITED STATES
TOWER SERVICES LTD**

QUALITY ANTENNA & TOWER SYSTEMS FOR
GOVERNMENT, TELECOMMUNICATIONS & COMMERCIAL SECTORS
SALES - MAINTENANCE - CONSTRUCTION
301-401-0925 WWW.USANTENNAPRODUCTS.COM



ROBERT J. SACCO
BSEE, JD
MANAGING SHAREHOLDER

**SACCO &
ASSOCIATES, PA**

WB4FL-Member

PATENT AND TRADEMARK LAW

Phone:
561-626-2222

3801 PGA Boulevard
Suite 802
Palm Beach Gardens, FL 33410

THE FINE PRINT...
WRC RESOURCE GUIDE INSERTIONS MUST
COMPLY WITH ALL APPLICABLE FEDERAL, STATE
AND LOCAL STATUTES.

THE WRC UPDATE RESERVES THE RIGHT
TO REJECT ANY INSERTION FOR ANY REASON.
ALL INSERTION INFORMATION IS ACCURATE TO
THE BEST OF OUR KNOWLEDGE AND A PROOF
HAS BEEN SENT TO ALL SUBMITTERS BEFORE
PUBLICATION.

THE WRC ASSUMES NO RESPONSIBILITY
FOR ERRORS.

GEORG SAMULKEWITSCH
MANAGING DIRECTOR



KR4WD-Treasurer
Founding Member

MAYORS™
PREMIER JEWELERS SINCE 1910

The Mall at Wellington Green
Suite 184
10300 Forest Hill Blvd.
Wellington, FL 33414

Phone 753-3455
Fax 753-9369



THE CHOICE OF
RADIO AMATEURS AND
COMMUNICATIONS PROS
FOR QUALITY ANTENNAS AND
ANTENNA ACCESSORIES.

ONLINE CATALOG:
WWW.CUSHCRAFT.COM



Ed Hammond WN1I
Guest Speaker

Sales Manager
Edh@cushcraft.com
(603) 627-7877ext 502

FOR ALL YOUR VHF-UHF-MICROWAVE
NEEDS FROM 50 MHZ - 10 GIGAHERTZ

**DOWN EAST
MICROWAVE**

FRENCHTOWN, NEW JERSEY

ASSEMBLED EQUIPMENT-KITS
POWER AMPLIFIERS-TRANSVERTERS
LOW NOISE PREAMPS-PARTS
WWW.DOWNEASTMICROWAVE.COM



Steve Kostro N2CEI
Guest Speaker
908-996-3584
FAX: 908-996-3702



**MARLIN P. JONES
& ASSOCIATES**

THIS AREA'S BEST SELECTION
AND PRICES FOR COAX CONNECTORS AND A
MULTITUDE OF ELECTRONIC PARTS, TOOLS,
POWER SUPPLIES, TEST EQUIPMENT,
GADGETS AND MORE!

ORDER BY TELEPHONE OR ONLINE & PICKUP AT STORE!

Online Catalog: WWW.MPJA.COM

Tech Info: 561-848-8236
Orders: 800-652-6733

Old Dixie Hwy.
Lake Park, FL



JUAN A. ABELLON
M.D., FAAP.
DIPLOMATE OF THE
AMERICAN BOARD OF PEDIATRICS

**WELLINGTON
PEDIATRICS, PA**

KG4QYY-Vice Pres.
at WRC's Free
Child ID Project

Palms West Medical Mall 1
13005 Southern Blvd., Ste 115
Loxahatchee, FL 33470

Office Hours
by Appointment:
790 - KIDS
790 - 5437



Calloosa Kid
Ham want to be

ELIZABETH JENNÉ
KG4RQC
JOHN LINDENBERG
KG4PQG
**NORTH AMERICAN
SHAR-PEI RESCUE**

SAVING ONE PEI AT A TIME!

For adoption information call volunteers
Lizz or Lindy at (561) 439-7044
www.sharpeirescue.com

ALBERTO MEDINA
PROPRIETOR

**MEDINA'S
LAWN SERVICE**

SERVING PALM BEACH COUNTY SINCE 1995

WHEN YOU WANT THE LAWN CUT...
AND NOT YOUR COAX.

Reliable... knowledgeable
Common sense maintenance



KG4RWO Member

References
Available
967-2345



STEPHEN A. WOLF
GENERAL MANAGER
**ALARM
GUARD**

ELECTRONIC, SECURITY,
CCTV ACCESS CONTROL,
FIRE DETECTION & BUILDING SECURITY ALARM SYSTEMS

Established 1977



793-1812
800-637-0344

3965 Investment Lane
W.P.B. FL 33404

FL License EF 13

AUSTIN GRANAT
CAPTAIN
RADIO OPERATIONS
**CITIZEN OBSERVER PATROL
PBSO**

Volunteers Needed in All Communities

Contact:

Major Bobbie Mathias
Administration



W2AGX - Member

433-2003
9am - 4pm M-F

DENNIS GERSHWIN
REAL ESTATE INSTRUCTOR
**Gold Coast School of
Real Estate**

BROKER/ASSOCIATE
Coldwell-Banker
Residential Real Estate



KA2TGQ-Member

7035 Beracasa Way, Boca Raton, FL 33433

Office: 561-392-2822
Home: 561-967-7871

Pager: 561-554-3328
Pager: 954-574-6901

PHOTO SUMMARY:

THE WRC'S FIFTH WALK TO CURE DIABETES...

GREAT WEATHER & PUBLIC EXPOSURE AND BEST OF ALL... NO LOST CHILDREN!

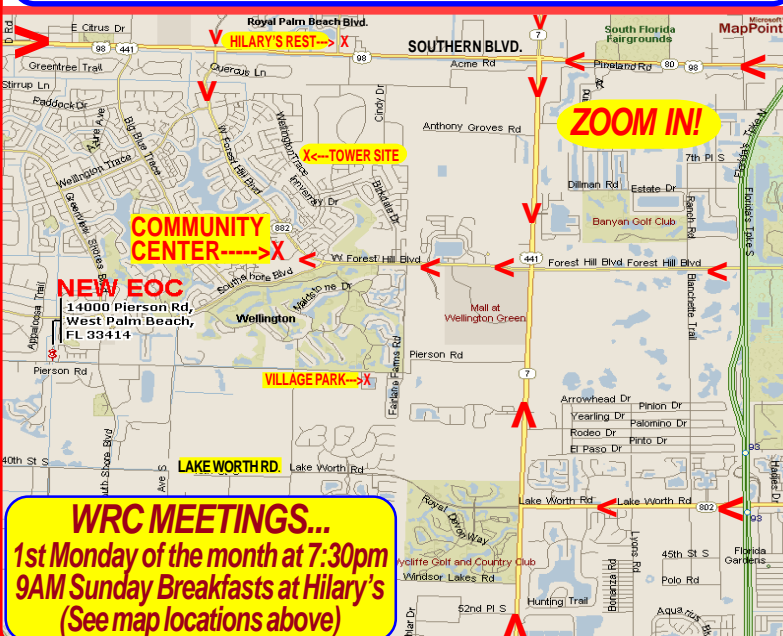


This successful event was marked by plenty of passersby and ham radio demonstrations...but fortunately, no lost children. **A:** Thousands of walkers gather at exhibitor booths in the early morning. **B:** Earlier, Bruce K2MDF signed-in at the JDRF Volunteer booth and is presented with the official Walk T-shirt. **C:** Larry KS4NB and Dave WB2APB at the Lost Children & Communications Booth which required only 15 minutes to setup. At most events, the WRC banner is the most noticeable... and must be to become the event's focal point for lost children. **D:** Wackenhut Officer Shipp wears a featherweight FRS radio provided by the WRC to coordinate the reuniting of children and parents. Law enforcement & security personnel prefer it to carrying another heavy Public Safety radio. Happily, half hour radio checks and a first aid request were the only official traffic. **E:** After the walk, tired participants relax on the grass to enjoy the entertainment and awards ceremony.



**MONDAY APRIL 4th MEETING AT THE WELLINGTON COMMUNITY CENTER,
12165 FOREST HILL BLVD. 1/4 MILE WEST OF SHOREBLVD.**

WEB SITE UPDATED - CHECK IT OUT!



THE WRC UPDATE

is the official publication of the
WELLINGTON RADIO CLUB

1213 White Pine Drive,
Wellington, FL 33414
(561) 385-2986 Email: LARRY33414@AOL.COM

President & Editor - Larry Lazar, KS4NB
Vice President - Bruce Fondiller, K2MDF
Secretary - Jerry Simon N3HVC
Treasurer - Georg Samulkewitsch, KR4WD
Program/Activities Chairperson - Tony Rycko KA2UFO

© 2003 - This publication maybe circulated freely only in its entirety. Partial reproduction in any form or its editing, without permission, is prohibited.

Permission may be requested from the Editor, via email at the address above or through the WRC website at:

www.qsl.net/k4wrc

WHERE ARE WE IN THE SOLAR CYCLE? THOUGHTS ON PROPAGATION FROM PHIL HK3SA EARTH ON A HOT SUMMERS NIGHT



Graphics by HK3SA
From The
Spiderwebnet

WWV on 15:00 MHz at 18 minutes after the hour reports ionospheric condition and the solar flux index each day.

This past week the solar flux has been less than 80 which, to say the least, has been poor.

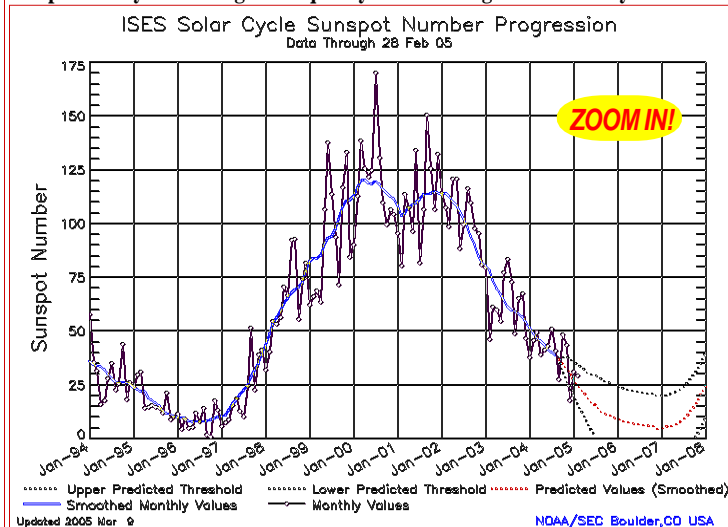
It is speculated the present solar cycle has yet to begin its recovery which unfortunately mean we still have many years before propagation will allow us to have meaningful QSO's on 10 meters late into the evening as was possible 10 years ago. (See the NOAA graph below).

Never the less, looking on the bright side of things, that is to say, the silver lining to the dark cloud; attached is the latest satellite imagery taken at 18:55 UTC from the new satellite "Amazon" showing intense activity of an ongoing solar storm.

Increases in ionization will produce unsettled atmospheric conditions significantly effecting global communications for the maritime mobile and Spiderweb nets within the next few days... "hi".

Fond regards... Phil HK3SA April 7, 2005
AmazonCaptain@cablenet.co

BELOW: The latest longterm NOAA propagation forecast hasn't changed much. It will be about 2 years until Jan. '07 before Sunspot Numbers, SSNs, start to steadily improve. SSNs vary hourly so you will still have good propagation at times... but smoothed averages are the basis for prediction. Unfortunately, averages as low as 5 are predicted which translates to lower Maximum Useable Frequencies and practically "dead" higher frequency bands during most of the day in 2006/7.



TOO CLOSE FOR COMFORT?

NEA COMING TO A NEIGHBORHOOD NEAR YOU!

As you read this story, remember the Moon is an average of 240,000 miles away. Now imagine an asteroid just 150,000 miles from Earth! This celestial body is the largest in many months coming this close. (Editor: This is NOT an April Fools article).

EARTH CHANGES TV

Hosted by
Mitch Battros

ECTV Radio Hour
Tues. 9 - 10 PM PST
Thurs. 9 - 10 PM PST

Your # 1 Source for
EARTH SCIENCE NEWS

Breaking News | World News | Biology News

April 12th 2005

Near Earth Asteroid (NEA) "2005 ED318" May 24th

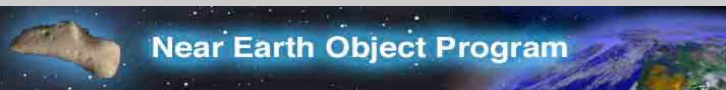
by Mitch Battros - ECTV

On May 24th 2005 NEA "2005 ED318" will come within 147,204 miles to Earth. (or 245,340 kilometers). This is 0.0164 AU's. AU stands for Astronomical Unit. 1 AU = 149,597,871 kilometers. (or 89,758,722 miles). In astronomical terms this is a close fly by.

With the following link you can manipulate the osculating orbit to get a visual on just how close this will be. (Editor: Two of the animated images are below).
http://neo.jpl.nasa.gov/cgi-bin/db_shm?des=2005%20ED318

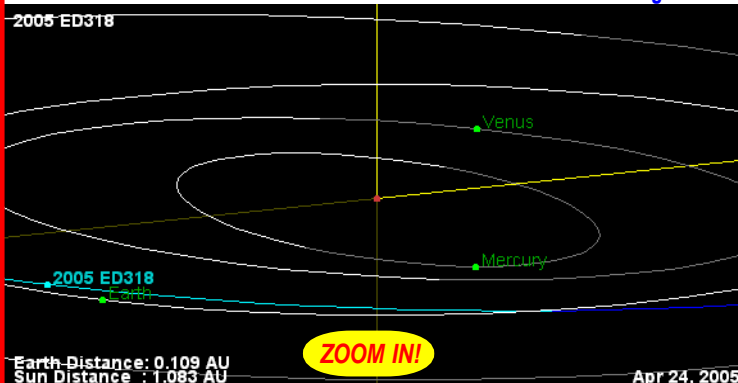


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

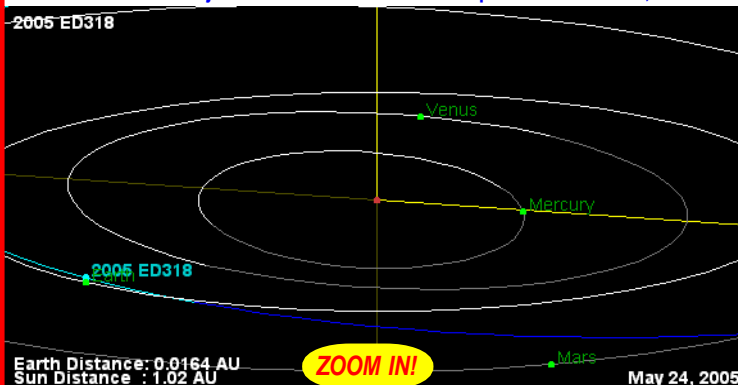


Near Earth Object Program

APRIL 24TH: ED318 is about 9 million miles from the Earth and closing fast.



MAY 24TH: Earth is just below ED318...its closest point of about 150,000 miles



The planets are white lines, and the asteroid/comet is a blue line. The bright white line indicates the portion of the orbit that is above the ecliptic plane, and the darker portion is below the ecliptic plane. Likewise for the asteroid orbit, the light blue indicates the portion above the ecliptic plane, and the dark blue the portion below it.