



# CROSSTALK

NEWSLETTER OF THE W6TRW  
AMATEUR RADIO CLUB

Volume 34 Number 6

June 2002



## UNITED WE STAND



### BREAKING NEWS:

**FIELD DAY 2002** **FIELD DAY 2002**

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**JUNE 22,23 2002**

Support Amateur Radio

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# W6TRW ARC Monthly Calendar of Events

Third Tuesday of each month	5:30 pm	<b>Executive Board Meeting, R4/2020f</b> (All Club Members are invited)
Second Tuesday of each month	5:30pm	<b>Club Meeting</b> Round Table Pizza, (Redondo Bch. & Hawthorne)
Second Tuesday of each month	12:00 noon	<b>Emergency Communications Team Meeting</b> R3 Emergency Operations Center
Last Saturday of each month (Rain or Shine & Holidays)	7:00 am	<b>W6TRW/ARC Swap Meet</b> Marine and Aviation (Southeast Corner)
<b>During the Swapmeet</b>	10:00 am	<b>VE Sessions in Cafeteria</b>

## Weekly Events

Every Monday Night (Except the 1st & Holidays)	7:30 pm	<b>Disaster Communication Systems (DCS) Net</b> DCS Members: Check in on 2 Meter Repeater
Every Wednesday	12:00 noon	<b>ECT Net on 2 meter Repeater</b> All Amateurs Welcome
Every Thursday	7:00 pm	<b>Space Hams Net on 2 meter Repeater</b> with N6SHI and W6EKK
Every Mon, Wed, Fri	2:00 pm	<b>W6TRW Retirees Net</b> 7185 KHz
Every Friday Morning	7:30 am	<b>W6TRW Amateur Radio Club Breakfast</b> Building S Cafeteria - Everyone is invited Talk-in on 2 Meters

### Other Ham Swap meets:

**El Cajon ARC** - 1st Sat. ea. mo. 6:00 AM @ Santee Drive-in Theater, Woodside Ave. @ Hwy 67 in Santee Talk-in 146.52

**Inland Empire ARC** - 2nd Sat. ea. mo. 7:00 to 11:30 AM @ A.B. Miller High School, Walnut & Oleander in Fontana Talk-in 145.480 (-600 pl=77.0hz)

**CA Microwave Relay Assoc. at CAL POLY** - 3rd Sat. ea. mo. 7-11am in lots F8,F9 and F10 @ CAL Poly Pomona at 3801 West Temple.

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## **FIELD DAY 2002 RULES**

*(This year we will be operating from Polliwog Park in Manhattan Beach, stop by and say hi or if you want to help, email Rod @ ke6pi@cox.net.)*

1. **Eligibility:** Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations **and countries within IARU Region 2**. DX stations residing in other regions may be contacted for credit, but are not eligible to submit entries.
2. **Object:** To work as many stations as possible on any and all amateur bands (excluding the 30, 17, and 12-meter bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.
3. **Date and Time Period:** Field Day is always the fourth full weekend of June, beginning at 1800 UTC Saturday and ending at 2100 UTC Sunday. **Field Day 2002 will be held June 22-23, 2002.**
  - 3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire Field Day period.
  - 3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.
  - 3.3. No Class A or B station may begin their set-up earlier than 1800 UTC on the Friday preceding the contest period.
4. **Entry Categories:** Field Day entries are classified according to the maximum number of simultaneously transmitted signals, followed by a designator of the nature of their individual or group participation. Below 30 MHz, once a transmitter is used for a contact on a band, it must remain on that band for at least 15 minutes. During the period, the transmitter is considered to be transmitting, whether it is or not, for the purpose of determining transmitter classification. Switching devices are prohibited.
  - 4.1. **(Class A) Club / non-club portable:** Club groups (or a non-club group with three or more licensed amateurs) set up specifically for Field Day. Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day use. Stations must operate under one callsign (**except if a dedicated GOTA station is allowed which must be operated under a callsign as provided later in these rules**), and under the control of a single licensee or trustee for the entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). All contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains. Entrants whom for any reason operate a transmitter or receiver from a commercial main for one or more contacts will be listed separately.
    - 4.1.1. **Any Class A group whose entry classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the GET ON THE AIR (GOTA) station.**
      - 4.1.1.1. **This station must operate using a different callsign from the primary Field Day station.**
      - 4.1.1.2. **The GOTA station may be operated by Novice, Technicians or generally inactive hams under their existing operating privileges, or under the direction of a Control Operator with appropriate privileges, as necessary.** Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.

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*(FIELD DAY rules cont.)*

**4.1.1.3. This station may operate on any valid Field Day band and mode.** As per FCC rules, this station must have a valid control operator present if operating beyond the license privileges of the participant using the station.

**4.1.1.4. The maximum transmitter output power for the GOTA station shall be 150 watts.** If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 watts.

**4.1.1.5. A maximum of 400 QSOs made by this station may be claimed for credit by its primary Field Day operation.** A 100-point bonus may be claimed by the primary Field Day operation if the GOTA station reaches the 400 QSO level.

**4.1.1.5.1. Any operator of the GOTA station is limited to completing a maximum of 100 QSOs for GOTA credit.**

**4.1.1.6. The GOTA station may operate on the Field Day HF and VHF Bands.** However only one transmitted signal is allowed from the GOTA station at any time (see Field Day rule 4).

**4.1.1.7. The GOTA station does not affect the additional VHF/UHF station provided for under Field Day rule 4.1.2.**

**4.1.1.8. Participants are reminded that non-licensed participants working under the direction of a valid control operator may only communicate with other W/VE stations or with stations in countries with which the US has entered a third-party agreement.**

4.1.2. Any Class A group whose entry category is two or more transmitters may also operate one additional transmitter if it operates exclusively on any bands or combination of bands above 50 MHz (VHF/UHF) without changing its basic entry classification. This station does not qualify for a 100-point bonus as an additional transmitter. This station may be operated for the entire Field Day period for the club and all contacts count for QSO credit. It is operated using the primary callsign of the Field Day group.

**4.2. (Class A - Battery) Club / non-club portable:** Club groups (or non-club groups with three or more licensed amateurs) set up specifically for Field Day, all contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial power mains or motor-driven generator (e.g.: batteries, solar cells, water-driven generator). Other provisions are the same for regular Class A.

**4.3. (Class B) One or two person portable:** Non-club stations set up and operated for Field Day purposes by no more than two licensed amateurs. Other provisions are the same for Class A. One and two person Class B entries will be listed separately.

**4.4. (Class B - Battery) One or two person portable:** Non-club stations set up and operated by no more than two licensed amateurs. All contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial mains or motor-driven generator. Other provisions are the same as Class A. One and two person Class B - Battery entries will be listed separately.

**4.5. (Class C) Mobile:** Stations in vehicles capable of operating while in motion and normally operated in this manner. This includes maritime and aeronautical mobile.

**4.6. (Class D) Home stations:** Stations operating from permanent or licensed station locations using commercial power. Class D stations may only count contacts made with Class A, B, C and E Field Day stations.

**4.7. (Class E) Home stations - Emergency power:** Same as Class D, but using emergency power for transmitters and receivers. May work stations in Class A, B, C, D, and E.

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(FIELD DAY rules cont.)

5. **Exchange:** Stations in ARRL / RAC sections will exchange their Field Day operating Class and ARRL / RAC section. Example: a three transmitter class A station in Connecticut which also has a GOTA station and one VHF station would send "3A CT" on CW or "3 Alpha Connecticut" on phone. **DX stations send operating class and the term DX (i.e. 2A DX).**

#### 6. Miscellaneous Rules

- 6.1. A person who participates by making a QSO from one Field Day operation may not subsequently work the station from which he participated using a different callsign.
- 6.2. A station used to contact one or more Field Day stations may not subsequently be used under any other callsign to participate in Field Day. Family stations are exempt provided the subsequent callsign used is issued to and used by a different family member.
- 6.3. Each Phone, CW and Digital (non-CW) segment is considered a separate band. A station may only be worked once per band.
- 6.4 All voice contacts are equivalent.
- 6.5. All non-CW digital contacts are equivalent.
- 6.6. Cross-band contacts are not permitted.
- 6.7. The use of more than one transmitter at the same time on a single band-mode is prohibited. Exception: a dedicated GOTA station may operate as prescribed in rule 4.1.
- 6.8. No repeater contacts are allowed.
- 6.9. Batteries may be charged while in use. Except for class D stations, the batteries must be charged from a power source other than commercial power mains.

7. **Scoring:** Scores are based on the total number of QSO points times the power multiplier corresponding to the highest power level under which any contact was made during the Field Day period plus the bonus points.

#### 7.1. QSO Points

- 7.1.1. Phone contacts count one point each.
- 7.1.2. CW contacts count two points each.
- 7.1.3. Digital contacts count two points each.

7.2. **Power multipliers:** The power multiplier that applies is determined by the highest power output of **any** of the transmitters used during the Field Day operation.

- 7.2.1. If **all** contacts are made using a power of 5 Watts or less and if a power source other than commercial mains or motor-driven generator is used (batteries, solar cells, water-driven generator) the power multiplier is 5.
- 7.2.2. If all contacts are made using a power of 5 Watts or less, but the power source is from a commercial main or from a motor-driven generator, the power multiplier is 2.
- 7.2.3. If any or all contacts are made using an output power up to 150 Watts or less, the power multiplier is 2.
- 7.2.4. If any or all contacts are made using an output power greater than 150 Watts, the power multiplier is one.
- 7.2.5. Only one power multiplier may be applied to the score of any entry.

7.3. **Bonus Points:** The following bonus points will be added to the score, after the multiplier is applied, to determine the final Field Day score. Only Class A and B stations are eligible for bonus points. Bonus points will only be applied if the claim is made on the summary sheet and any proof required is enclosed with the entry.

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*(FIELD DAY rules cont.)*

7.3.1. **100% Emergency Power:** 100 points per transmitter classification if all contacts are made only using an emergency power source. Free transmitters that do not count towards the group's total do not qualify for bonus point credit. All transmitting equipment at the site must operate from a power source completely independent of the commercial power mains to qualify. (Example: a club operating 3 transmitters plus a GOTA station and using 100% emergency power receives 300 bonus points.)

7.3.2. **Media Publicity:** 100 bonus points may be earned for attempting to obtain publicity from the local media. A copy of the press release, or a copy of the actual media publicity received (newspaper article, etc) must be submitted to claim the points.

7.3.3. **Public Location:** 100 bonus points for physically locating the Field Day operation in a public place (shopping center, community park, school campus). The intent is for amateur radio to be on display to the public.

7.3.4. **Public Information Table:** 100 bonus points for a Public Information Table at the Field Day site. The purpose is to make appropriate handouts and information available to the visiting public at the site. A copy of a visitor's log, copies of club handouts or photos is sufficient evidence for claiming this bonus.

7.3.5. **Message Origination to Section Manager:** 100 bonus points for origination of a National Traffic System (NTS) style formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station. The message must be transmitted during the Field Day period and a fully serviced copy of it must be included in your submission, in standard ARRL NTS format, or no credit will be given.

7.3.6. **Message Handling:** 10 points for each formal NTS style originated, relayed or received and delivered during the Field Day period, up to a maximum of 100 points (ten messages). Properly serviced copies of each message must be included with the Field Day report.

7.3.7. **Satellite QSO:** 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. Under the "General Rules for All ARRL Contests" (rule 3.7.2.), the no-repeater QSO stipulation is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band."

7.3.8. **Alternate Power:** 100 bonus points for Field Day groups making a minimum of five QSOs without using power from commercial mains or a petroleum driven generator. This means an "alternate" energy source of power, such as solar, wind, methane or water. This includes batteries charged by natural means (not dry cells). The natural power transmitter counts as an additional transmitter. If you do not wish to increase your operating category, you should take one of your other transmitters off the air while the natural power transmitter is in operation. A separate list of natural power QSOs should be submitted with your entry.

7.3.9. **W1AW Bulletin:** 100 bonus points for copying the special Field Day bulletin transmitted by W1AW during its operating schedule during the Field Day weekend (listed in this rules announcement). An accurate copy of the message is required to be included in your Field Day submission. (Note: The Field Day bulletin must be copied via amateur radio. It will not be included in Internet bulletins sent out from Headquarters and will not be posted to Internet BBS sites.)

7.3.10. **Non-Traditional Mode Demonstrations:** A maximum of 300 bonus points (100 points for each demonstration up to three) for setting up a demonstration of a non-traditional mode of amateur radio communications. This includes modes such as APRS, ATV, and SSTV. This bonus is not available for demonstration of a mode for which regular QSO credit is available, such as PSK31.

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(FIELD DAY rules cont.)

7.3.10.1. A portable packet system may be included as one of the demonstration modes. This system must include a temporary, portable node separate from the existing packet infrastructure of your area.

7.3.11. **Site Visitation.** A 100 point bonus may be claimed if your Field Day sight is visited by an elected government official or representative of an agency served by ARES in your local community (Red Cross, Salvation Army, local Emergency Management, law enforcement, etc) as the result of an invitation issued by your group.

**7.3.12. GOTA maximum achieved. A 100-point bonus may be claimed by a groups whose GOTA station completes the maximum allowable 400 QSOs.**

#### **8. Reporting:**

8.1. Entries must be postmarked or emailed by **July 23, 2002**. No late entries can be accepted. A complete entry consists of:

8.1.1. An official ARRL summary sheet (or reasonable facsimile) which is completely and accurately filled out;

8.1.2. A list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode);

8.1.3. Proofs of bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc)

8.2. Complete station logs are not required for submission. The club should maintain log files for one year in case they are requested by ARRL HQ.

8.2.1. Cabrillo format log files are not required for Field Day entries.

8.3. Electronic submissions should be emailed to: FieldDay@arrl.org and should include, as attachments to the email, the required summary sheet and dupe files as well as document files and/or jpg/gif files of any bonus points claimed.

8.4. Paper submissions should be mailed to: Field Day Entry, ARRL, 225 Main St., Newington, CT 06111

#### **9. Miscellaneous**

9.1. The list of bulletin times for W1AW is included in this announcement. While W1AW does not have regular bulletins on weekends, the Field Day message will be sent according to the schedule included with this announcement.

9.2. See "General Rules for All ARRL Contests," "General Rules for All ARRL Contests on Bands Below 30 MHz," and "General Rules for All ARRL Contests on Bands Above 50 MHz" (November 2001 issue of *QST*) for additional rules.

9.3. Remember that the national simplex FM calling frequency of 146.52 MHz should not be used for making Field Day contacts.

9.4. The complete Field Day information package may be obtained by:

9.4.1. Sending a SASE with 4 units of postage to: Field Day Information Package, ARRL, 225 Main St., Newington, CT 06111;

9.4.2. By downloading from the Contest Branch home page at: <http://www.arrl.org/contests/forms>

9.5. For additional Field Day information or questions contact: [contests@arrl.org](mailto:contests@arrl.org) or phone (860) 594-0232.

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## **DOZENS OF HAMS AIDING RESPONSE TO HUGE COLORADO FIRE**

*(Reprinted from the ARRL Letter vol. 21 # 24)*

ARRL Colorado Section Manager Jeff Ryan, K0RM, reports that more than 70 Amateur Radio Emergency Service team members this week provided front-line support in the face of the Hayman Fire--now being called the largest fire in Colorado's history. Hundreds of firefighters aided by aerial tankers and helicopters continue to battle the blaze that, by the end of the week, had scorched some 100,000 acres of the Colorado mountains southwest of Denver.

"This is Amateur Radio at its finest," Ryan said. "Operators are working shifts in sometimes harsh conditions, driving many miles home to rest, then turning around to pull another shift, often in a completely different location."

Both mandatory and voluntary evacuation decrees affected more than 15,000 people. Ryan said at week's end that some 5500 residents actually were evacuated. For the first time in its history, the Pike National Forest was closed to the public. Authorities blamed an illegal campfire with starting the blaze.

Ryan says many hams in Colorado were able to stand down by the end of the week as the primary served agencies--various sheriff's offices—turned over responsibility for fighting the fire to the federal government.

Served agencies had included the sheriff's offices in Douglas, Arapahoe, Jefferson and Teller counties as well as the Jefferson County Incident Management Team; West Metro (Denver) 911 Center; and the Federal Type 1 Wildland Fire Incident Management Team command centers. More than two dozen amateurs remained on duty by week's end, Ryan said, to provide round-the-clock support for the Mile High and Pikes Peak chapters of the American Red Cross and The Salvation Army. Amateurs from the Jefferson, Douglas, Park, Arapahoe, Pikes Peak, Boulder, Denver, Adams, Fremont and Pueblo ARES groups have been participating.

Offers of assistance have been received from individual hams outside of the state. Colorado Section Emergency Coordinator Mike Morgan, N5LPZ, said, "Since the different groups have drilled together in the past, coordination and cooperation between groups is seamless."

Ryan said light rain by the end of the week provided welcome relief, although the Hayman Fire was only about 5 percent contained.

Meanwhile, some 150 miles west of Denver, the Coal Seam Fire near Glenwood Springs has burned 10,000 acres and destroyed 28 homes. Most evacuated residents were allowed to return home as cooler temperatures and decreasing winds allowed firefighters to gain ground against the blaze, Ryan said. Eleven hams from Garfield and Eagle ARES groups supported Red Cross shelters in the area.



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## **MISSIONARY KILLED IN PHILIPPINES WAS AMATEUR LICENSEE**

*(Reprinted from the ARRL Letter vol. 21 # 24)*

Martin R. "Ray" Burnham, the US missionary pilot held captive with his wife for more than a year in the Philippines and killed during a military rescue attempt June 7, was an Amateur Radio licensee, KC0DNB. Burnham, 42, from Rose Hill, Kansas, near Wichita, held a Technician license issued in 1998.

The circumstances of Burnham's death still are not clear. Burnham's wife, Gracia, was wounded by gunfire but was expected to recover. A Philippine nurse, Ediborah Yap, also died. The Burnhams had been held hostage since May 2001 by Abu Sayyaf, a Muslim extremist group. Several Philippine soldiers and rebels also were said to have died in the rescue attempt.

A native of Wichita, Burnham was a graduate of Calvary Bible College and Wichita Aviation Education Center. He also completed missionary training with New Tribes Mission, with which he'd served for the past 17 years. He was the son of missionary parents who have served in the Philippines since 1969.

The Burnhams have three children, Jeff, 15; Mindy 12, and Zach, 11. For more information, visit the New Tribes Mission Web site <<http://www.ntm.org>>.

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## **ISS Expedition 5 crew chief active on air:**

*(Reprinted from the ARRL Letter vol. 21 # 24)*

Stan Vandiver, W4SV, in Indiana, reports he worked International Space Station Expedition 5 Crew Commander Valeri Korzun June 10 on 2 meters at 0222 UTC. "He was using call sign RS0ISS, and he complimented my Russian!" said Vandiver, who sprinkled a few Russian words into his exchange. "I hope this is a sign of things to come for this crew!" Vandiver said Korzun worked some other stations before his contact, which he recorded and posted on his Web site <<http://stan.vandiver.com/space.html>>.

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## **New Extra class question pool effective July 1:**

*(Reprinted from the ARRL Letter vol. 21 # 24)*

Starting July 1, a new Amateur Extra class (Element 4) question pool goes into effect for examinations given on or after that date. The new pool contains more than 800 questions--up from the present 685. There is no change in the number of questions or the passing grade for examinations derived from the new question pool, however, and no other examination elements are affected. A representative from ARRL VEC sits on the Question Pool Committee, which is composed of representatives of four of the nation's Volunteer Examiner Coordinator organizations. Question pools are revised and updated on a timetable determined by the QPC, which is soliciting candidate questions based on the recently released Technician (Element 2) syllabus. All current question pools are available on the ARRL Amateur Exam Question Pools Web site <<http://www.arrl.org/arrlvec/pools.html>>.

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# W6TRW AMATEUR RADIO CLUB

## ELECTED OFFICERS

President	Wendell Young	KE6ASC	R3 / 1086	(310) 813-2622
Vice President	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Secretary	Wendy Crawford	KQ6CG	Carson	(310) 513-2060
Treasurer	Jason Fujino	KD6ELS	R5 / 2130	(310) 812-5461

## APPOINTED STAFF

447 Repeater Autopatch	Duane Park	WA6EIK	O1 / 1070	(310) 813-4219
Activities Chairperson	Mike Hamada	KF6UCN	M5 / 0435	(310) 814-2628
Crosstalk Editor	Duane Park	WA6EIK	O1 / 1070	(310) 813-4219
Emer. Comm. Coordinator	Bob Briggs	KD6WYQ	O1 / 1270	(310) 813-2622
Librarian	Jim Harrison	K6OUE	R6 / 2541	(310) 814-1937
Membership Chairperson	Wendy Crawford	KQ6CG		(310) 513-2060
Past President	Bob Briggs	KD6WYQ	O1 / 1270	(310) 813-2622
Publicity Chairperson	Dave Nelson	AB6DU	R8 / 2144	(310) 813-9775
QSL Manager	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
S.P. Packet/Internet Sysop	Chris Wachs	WA2KDL	M4 / 2375	(310) 813-1506
SEA Representative	Chris Wachs	WA2KDL	M4 / 2375	(310) 813-1506
Swap Meet Manager	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Technical Chairperson	John Cheatham	KE6OJM	R9 / 2477	(310) 813-5903
Training Chairperson	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
Trustee of W6TRW License	Elizabeth Kunkee	KS4IS	D1 / 1024	(310) 813-0524
W6TRW COMM Webmaster	Duane Park	WA6EIK	O1 / 1070	(310) 813-4219

### **BOLD=NEW**

W6TRW ARC Hotline (Club Answering Machine)	(310) 813-8569
W6TRW 2 Meter Repeater (Open Repeater)	145.32 (-600) PL 114.8Hz
W6TRW UHF Repeater (Open Repeater / Closed Autopatch)	447.00 (-5 MHz) PL 100 Hz
W6TRW-3 Packet Radio Internet Gateway and BBS (1200 Baud Port)	146.745 (-600)

W6TRW Amateur Radio Club  
S/1156  
One Space Park  
Redondo Beach, CA 90278

**FIRST CLASS**

Deliver To:

