

R^an_dom Radiation

The Journal of the

The Pacific Amateur Radio Guild

Established 1969 by Howard S. Pyle, W7OE (SK)



Net Schedules:

9 AM Daily (1600 UTC) – 7034 KHz – NCS:

Sun – N7MFB, Bill
Mon – N6AU, DG
Tues – W7VDQ, Tom
Wed – WB6N, Terry
Thurs – WA7MMM Greg
Fri – AA6ZE, Pete
Sat – K7ZED, BB

8PM Sundays 3545 KHz NCS

Sun -- N6KIX, –Rob

Net Volunteers:

President: Bill, N7MFB

General Manager: Open Need Volunteer

Treasurer: Dave Noall K7GZP

12877 NW Lorraine Drive, Portland, OR 97229

Editor / Publisher: Larry Shirk AA7UA

21005 Marine View Drive SW, Normandy Park,
WA 98166

Email aa7ua@comcast.net

Issue: March through November 2019

PARG Status:

Net Activity:

Dailey 40 Meter Daily Net Current NET procedure is for NC to begin calling the PARG net on 40 meters, 7034 KHz, and picking up both the "long skip" (low angle radiation) and "short skip" (high angle radiation).

80 Meter Net on Tuesday, Thursday and Saturday

When conditions are poor and 40 meter "short skip" isn't working we switch to our 80 meter frequency, 3545 KHz, following the 40 meter net session, and pick up all the remaining "short skip" stations there. Lately conditions have been such that both frequencies are often needed.

Sunday Net: Don't forget the 80 meter net which meets on **Sundays at 8PM** PST on 3545 kHz. Rob, N6KIX has graciously accepted the NCS role for the Sunday night net.

Thanks to those members who are hanging in there supporting the PARG net during difficult propagation conditions. The use of both 40 and 80 meter bands plus listening in on SDR receivers helps keep us all together. Better times are coming, and they can't come soon enough for most of us.

Treasurers Report

Cash	\$20.59
Checking Account	\$1066.18
PayPal	\$25.00

David K7GZP

The current balance in checking = \$1056.18

Uncle PARG Wants You-----Please keep your inputs to the PARG editor coming. Your shack, family, vacations, pets or anything else of interest especially if you would like to hear of something other than AA7UA and family hi hi.

Larry Shirk AA7UA aa7ua@comcast.net
 21005 Marine View Drive SW
 Normandy Park, WA 9816

Around the Net:

David Noall K7GZP

One of my other hobbies is clock repair and restoration.

Here is one of my recent purchases, a circa 1950 Ship's Radio Room Clock.

The red markings around the edge are for sending a distress signal of 12, 4 second dashes each separated by one second. To set off an automatic alarm on nearby ships. It also has markings for 3 minute silent periods for listening for weak signal distress calls on 600 meters.

The clock was first made by the Chelsea Clock Company in 1931. Attached is a page from the September 1931 issue of Marine review announcing the production of new clock.



IN CO-OPERATION with the Chelsea Clock Co., the Radiomarine Corp. of America, 66 Broad street, New York, has developed a special radio room clock. The clock, illustrated herewith, has been especially designed to facilitate transmission of the alarm signal provided by the international radiotelegraph convention and the international conference on safety of life at sea. The

alarm signal consists of 12 dashes, each four seconds long, with an interval of one second, to be transmitted during a period of one minute.

The clock is provided with a sweep second hand and special red markings on the dial, making it easy for the operator to accurately time the four second dashes and one second spacing. This is to assist in sending out signals of exactly four seconds' duration in emergency. Such signals, separated by silent intervals of one second, will operate automatic devices in ships within range and call radio operators to their posts if they should not be on watch.

Other special markings are provided to call the operator's attention to the three minute silent periods which must be observed by all radio stations at 15 and 45 minutes past each hour.

The movements are 7 jewelled lever escapement with compensation balance, Breguet hairspring, cut wheels, cut steel pinions, hardened ground and polished.

Fernando N2FQ/6

I have modified many of my rigs to suit my style of operating. Some are easy and others are more intrusive. The easy ones are replacing the Molex connector to Power Poles, changing out the SO-239 to BNC. Replacing the stock cooling fans with much quieter ones. The intrusive ones are removing SMD to open the TX (called the MARS mod), removing and replacing SMD in the audio circuit for a more mellow sound in the IC-7200. You still can tinker with these new types of rigs, albeit modestly.

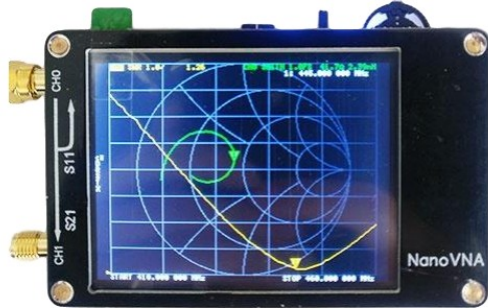




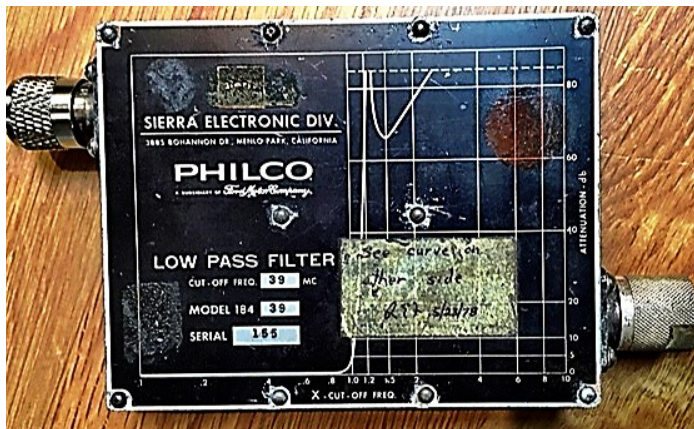
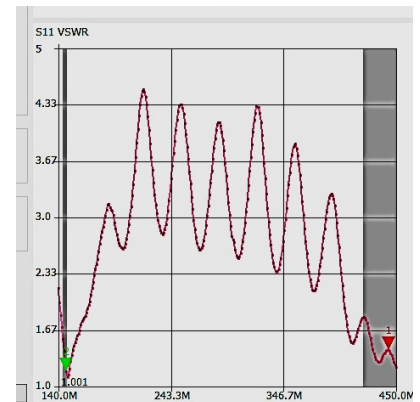
N2FQ/6 Fernando

Larry AA7A

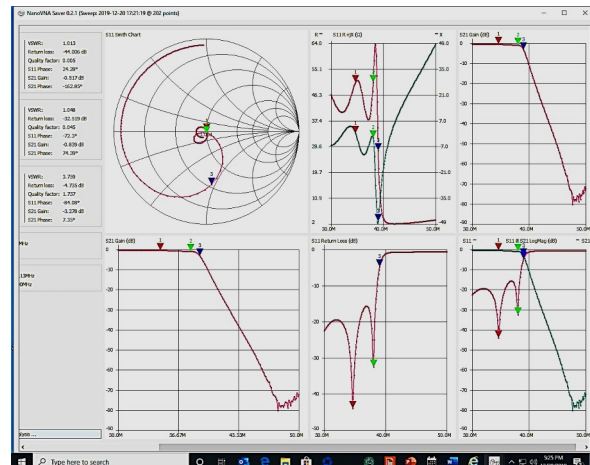
The January/February QEX had an article on an ultra low cost network analyzer called the Nano VNA. I purchased one from eBay for about **\$50**. The commercial VNAs like the one I used ad Boeing cost tens of thousands of dollars. Although not as versatile or accurate the little Nano does a remarkable good job for ham use. It costs emensly less than an MFJ Antenna Analyzer and is capable of a lot more measurements. Free download software that runs on your PC produces some nice charts. You can find this VNA for sale on Amaaon.com

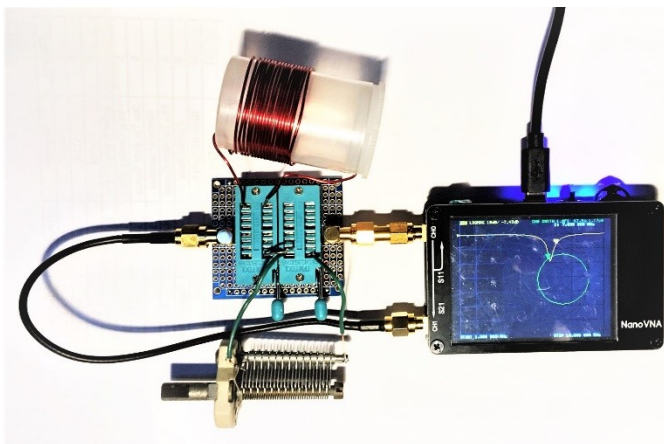


Measuring SWR
of a 2 band
Mag mount

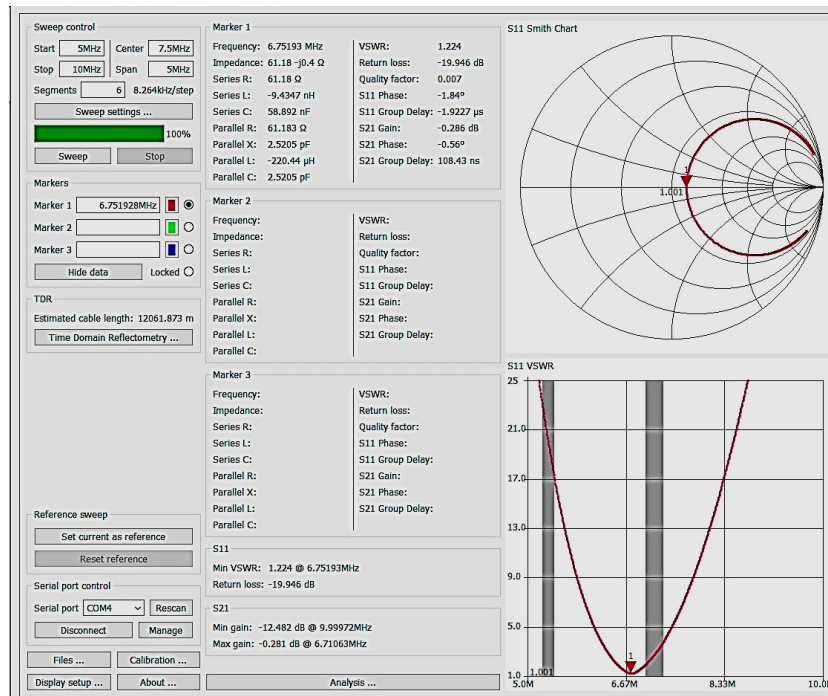


Measuring a Low Pass Filter





Measuring series L C circuit that has A resonance somewhere around the 40 meters, like a trap.

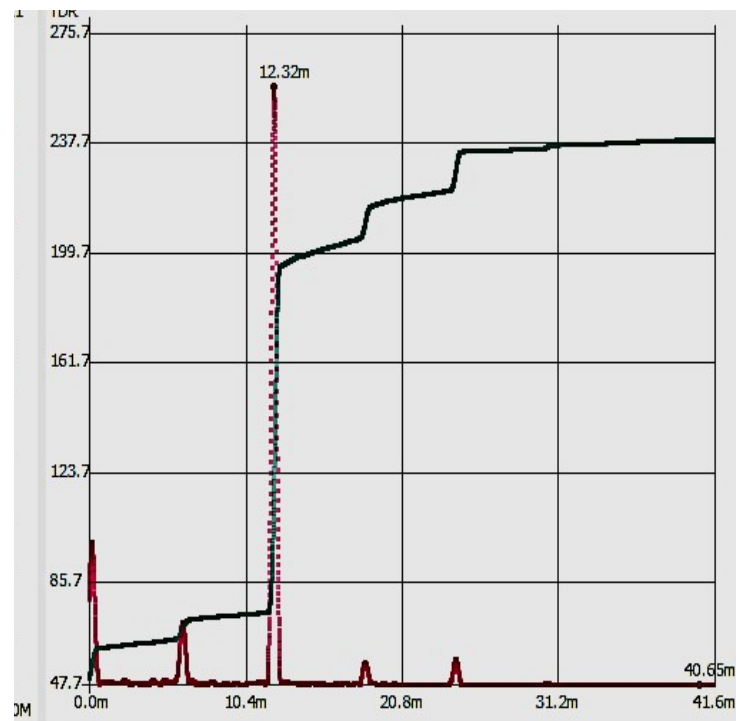


Here we are measuring a length of RG58 coax That is 12.33 meters long. Using the Time Domain Reflectometer mode. You can also see an Inline barrel connector at about 6 meters and the connector at the VNA at approximately 0 meters.

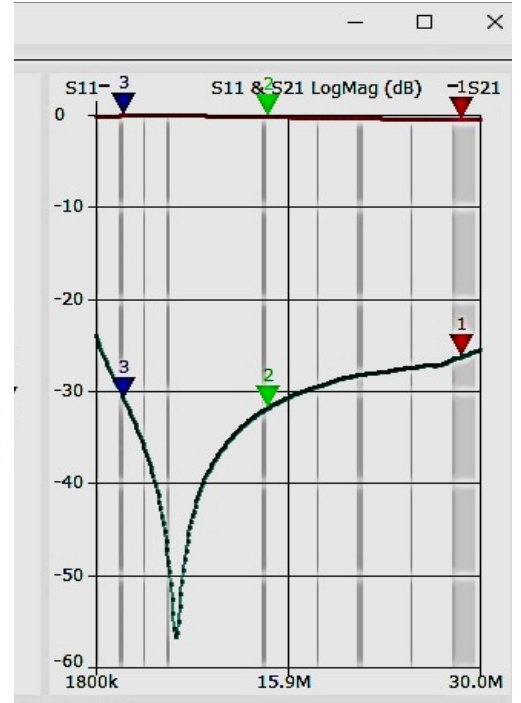
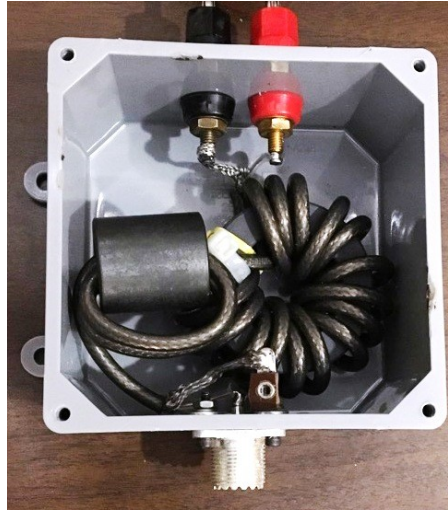
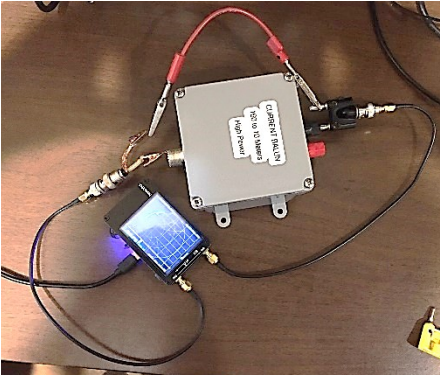
The second reflection (second time around) is shown on the graph beyond the 12.32 meter mark

This VNA can perform all the measurements listed below:

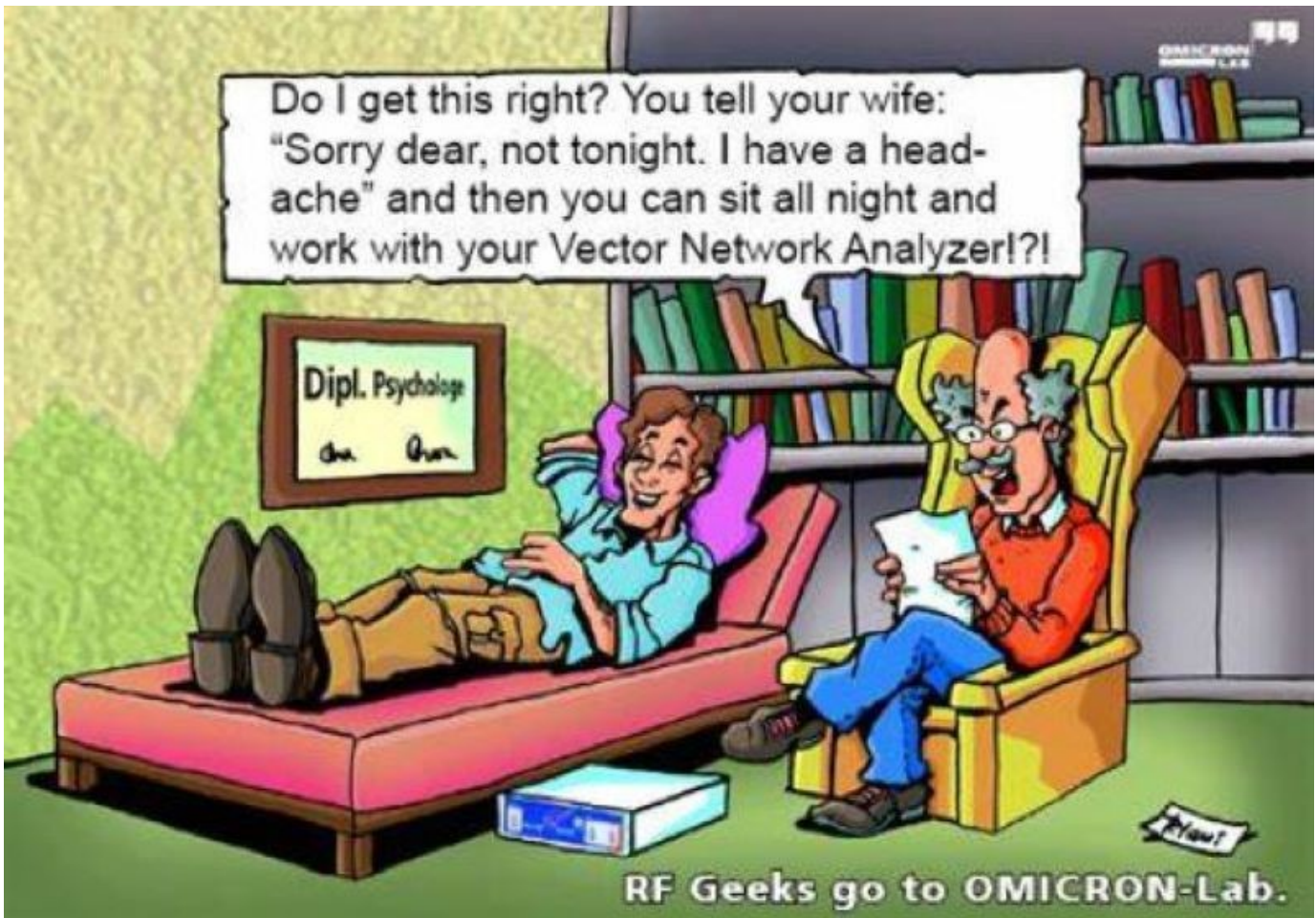
- SWR
- Resistance and reactance at the cable input
- Resistance and reactance at the antenna terminals
- Resistance and reactance of discrete components
- Return loss
- Transmission loss
- Isolation/coupling
- Reflection coefficient
- Cable length
- Cable impedance (Z_0)
- Cable loss
- Distance to fault (open or short)
- S parameters
- Time Domain reflections along a transmission Line



This home brew high power current balun (below) measures suppression of RF on the outer shield of coax that is in excess of 25 dB from 160 through 10 meters.



This little VNA device is loads of fun and can provide a ham with hours and hours of enjoyment. Just remember not to overdo it hi hi.



The Slow Speed Net

PARG does not have a slow speed net in operation at this time, however, many PARG members have been working at putting together resources for those who need a slow speed option to improve code proficiency. In addition there has been some recent interest in starting a PARG slow speed net. In the interim some of the resources available include: 1) FISTS, The International Morse Preservation Society 2) SKCC, Straight Key Century Club www.skccgroup.com 3) WCN, West Coast Slow Speed Nets, WCN is a training net, <http://west-coast-net.info/>. 4) NAQCC, North American QRP CW Club <http://naqcc.info/> this group is currently running a slow speed CW group and Stewart KE7LKW writes: "I would like to invite any PARG members who would like to participate in the PNW NAQCC QRS net to check in. No one has to be a NAQCC member and you do not have to be QRP. The PNW NAQCC QRS net is on Thursday night at 7PM (PST) to 3.5565 . NCS is usually Stewart, KE7LKW, QTH White Salmon, WA.

QRS Practice: Most PARG members will be glad to QSO at a slower speed before or after the nets. Let any PARG member know if you would like a QRS QSO and enjoy some good practice.

For those receiving a copy of Random Radiation the following information about PARG may be of interest:

The aims of PARG are: 1) to maintain a communications network with competent and skilled CW operators through organized nets and inter-member contacts; 2) to promote and encourage fellowship between Pacific Coast and Western Region Amateurs; 3) to continue the cordial social relationships enjoyed by membership existing over the decades; 4) to encourage, by example, the wider use of power levels necessary to effect reliable communications, thereby reducing QRM on the Amateur bands.

PARG maintains a daily social CW net on or near 7034 kHz at 0900 Pacific time 7 days per week and a CW net on or near 3545 kHz at 8 PM Pacific time on Sunday's. Net Control stations vary with each meeting.

Membership dues are \$5.00 per year (which includes a subscription to Random Radiation) but guests are always welcome to check-in to the nets and join in the conversation. A membership application form is available from our President N7MFB. Membership dues are sent to the Treasurer.

Visitors to the net often hear members end their comments with the word POMSAT. This is an old military term which means "Personnel, Operations, and Materials Satisfactory." It suggests that all is well! Another term used is KPOA which means "Keep PARG on the Air."

SeaPac 2020

The last time I checked SeaPac 2020 is still on the calendar. Let's hope that the Virus problem gets resolved in in time for SeaPac to remain on schedule this year. Dave Noall K7GZP is reserving a club table for PARG. Several of us have decided to meet at Fultano's Pizza on Friday night. The address is 215 Broadway Street, Seaside, Oregon which is within walking distance of the convention center. 7 PM sounds like a good time but we can firm up on that later. Hope to see many of you there.

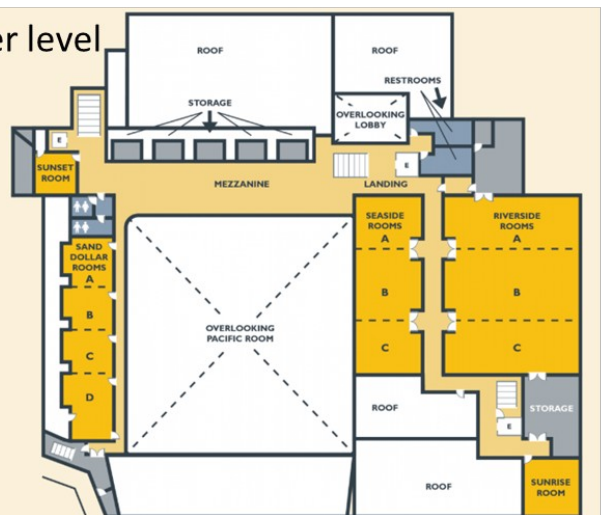
SeaSide Convention Center
Constructed in 1971 and renovated in 2018/2019, the SCCC has 24,600 square feet of usable meeting and event space. Additional Prefunction and Mezzanine areas add 8,900 square feet, ideal for vendors and social networking.



Lower level



Upper level



The SeaSide Convention Center remodel/upgrade is complete with more room than ever. You just have to attend this year and look the upgraded facility over.

Roster June 2019

New members and regulars are highlighted

A-NU6 #402	John	Bellingham, WA	IET-N6 #430	Rick	Los Angeles, CA	
AAZ—W7 #398	Bill	Twin Falls ID	IFG-K7 #378	Ken	Beavercreek OR	
AMZ-VE6 #376	Dan	Vauxhill AB	II-AI6 #405	Mike	Fairfax, CA	
AU-N6 #416	DG	Friday Harbor WA	JJR-K6 JKP-KG7 #436	Mark MICHA	Auburn CA	XXX
AX--KL2 #373	John	Homer, AK	JL—W6 #277	Don	Fallbrook, CA	
AXT—WA7 #422	David	Snohomish, WA	JWV-K9 #380	Jim	St. George, UT	
BAU—KD7 #388	Al	Seattle, WA	JLT—KA6 #426	Rob	Walker	
BC—AD6 #337	Lou	Clayton, CA	KAI-WA7 #392	Dave	Milwaukie, OR	
BGJ—VE7 #362	Walt	Burnaby, BC	KIX—N6 #304	Rob	Davis, CA	
BWH-K7 #397	Barry	Sammamish WA	KXB-W7 #386	Bill	SeaTac, WA	
BXP—KL7 #433	Tom	McCleary WA	MDK-W7 #428	Dick	Peck, Idaho	
CPP—N7 #184	Bruce	Carson Cty NV	MFB-N7 #320	Bill	Pt. Angls, WA	
CTQ-KH6 #401	Peter	Chiloquin, OR	MJD-WD0 #409	Duane	Rnch Cdva CA	
DPV-W7 #431	Don	Copeland, Banks OR	MMG-W6 #395	Alex	Belmont, CA	
DRK-KC7 #411	Sandor	Pt. Orchard WA	MMM-WA7 #101	Greg	Portland, OR	
DWG—VE7 #330	Dave	Aldergrove, BC	NBM-KC7 #___	Paul	Spokane, WA	
EHM—W7 #244	Pat	Reno, NV	N-WB6 #385	Terry	Donnelly, ID	
EID—K7 #370	Les	Clinton, WA	OPO—W6 #371	Bob	San Jose, CA	
FQ-N2 #377	Fernando	San Jose CA	PCR—W7 #358	Dan	LA, CA	
FU—NO #366	Bill	Chula Vsta, CA	POE--W7 #406	George	Burien, WA	
G—NY6 #328	Stan	Tracy, CA	QXO—KD7 #425	Rod	Sparks, NV	
GB—W7 #267	Don	Moses Lk, WA	R – KB6 #383	Bob	Llano, CA	
GZP-K7 #415	Dave	Portland, OR	RA—K7 #427	Tad	Seattle, WA	
HBY—KG7 #423	Sam	Sparks, NV	RFQ-WB4 #412	Dan	San Francisco	
HCN #437	John		RR-N7 #407	Bruce	Blaine, WA	
HJV—WA7 #390	Jack	Pendleton, OR	S-KD7 #435	Bill		
HP—K6 #999	Ed	Murphy's, CA	SB-KL7 #403	Steve	Anchorage AK	
HYO--KF7 #421	Pete	Bonney Lake, WA	SC—N6 #359	Spence S.	Leandro, CA	

SGD—W6	Chip	Tarzana, CA	
#365			
SJS – W7	Ray	Salem, OR	
#325			
SMR-W7	Dick	Portland, OR	
#393			
SOM-W7	John	Bothell, WA	
#404			
SPB-WB4	Randy	Tacoma, WA	
#394			
SSQ—N6	Fergy	Hamilton, MT	
#289			
TDC-KG7	Glenn	Hubbard, OR	
#429			
TF-K6	Rick	Colfax, CA	
#384			
TOB-K6	Dick	Newhall, CA	
#382			
TQJ—WA6	Gary	Davis, CA	
#418			
U-AI6	Chris	Sacto, CA	
#050			
UA-AA7	Larry	Normandy Park, WA	
#387			
UUJ-KE7	Steve	Rock Springs, WY	
#399			
UYH-W5	Russ	Nampa, ID	
#361			
V-KO7	Ron		
#434			
VDQ-W7	Tom	Oregon City, OR	
#369			
VFQ-KF7	Steve	Beaver OR	
#420			
VV-VA7	Jerome	Vancouver BC	
#419			
WEL—W7	Bill	St. Maries, ID	
#347			
WSG-K7	Bob	Forest Grove	
#413			
Y—KI7	Jim	Milwaukie, OR	
#424			
YSU-WA7	Eric	Hillsboro, OR	
#389			
YT-N7	Bill	Seabeck, WA	
#414			
YY-AC6	Ned	San Jose CA	XXX
ZAC-W7	KC	Spring Creek, NV	
#379			
ZE-AA6	Pete	Santa Rosa, CA	
#417			
ZED-K7	BB	Woodburn, OR	
#034			
ZI-W7	Mike	Beaverton, OR	
#400			
ZSK-K7	BJ	Gresham, OR	
#071			
ZW-N6	Mike	Lodi, CA	
#005			

Regular Check Ins # = XXX

Some Q Signals used on the PARG Nets:

QNI Net stations report in (for use only by net control station)
QND Net is directed (controlled by net control station)
QNN Net Control station is ...
QNO Station is leaving the net
QNP Unable to copy
QNS Following stations are in the net ...
QNX You are excused from the net
QNZ Zero beat your signal with Net Control Station

Others:
QFA Would like to QSO with-----after the net
QRU Have you anything further to report/ask etc.
QRY What is my turn (indicates your place on the list of check-ins)
QSP Will you relay to ...
RJ Relief Jockey – a station substituting for the regular

Current max # = 433

