A Construction of the set of the

The 100 Pound DXpedition B. Scott Andersen ~ NE1RD

The general idea

- * Travel to an interesting place — interesting doesn't necessarily mean exotic, expensive, or dangerous
- * Bring a manageable amount of equipment (100 pounds or so, not a hard limit)

- * Use simple, effective equipment, antennas, and techniques
- * Concentrate on doing things right, even if you aren't doing things big

Science and planning

- The key thing for a successful 100 Pound DXpedition is planning
- * Collect a solid set of equipment long before a trip and learn it well
- Set goals for your DXpedition and treat it as you would any important personal project
- * Learn enough about the science of the hobby to make good trade-off decisions

It has to fit into this

- * Transceiver, power supply, tuner, headset, foot peddle, paddles
- * Antennas, coax, connectors, masts, rope, coils, wire
- * Computer, clothes, toothbrush, etc.







PROJECT KP2/NE1RD CQ WW WPX SSB

DATE MARCH 2010

ST. THOMAS

Set goals

- * Have a great and relaxing vacation with Sandy
- * Go someplace easy, no licensing issue
- * Operate in a contest
- # Get materials for my FDIM talk
- * Talk to some friends back home while there
- * Try to set a record in the contest

© 2010 Google © 2010 Europa Technologies US Dept of State Geographer © 2010 Tele Atlas

lat 30.717110° lon -55.452287°

· · ·

· .

. . .



< .

+

-

Eye alt 23697.99 km 🛛 🔘



© 2010 Europa Technologies Image © 2010 DigitalGlobe © 2010 Google Google

Fishing poles and BPs

- # Great property
- Roof mounted
- * 33' mast 80m V
- * 20' pole 40m V
- # 15m whip



- * Buddipole dipole on 16' mast (so about 35-40' high) for 20m
- * Not enough coax, 15m antenna unnecessary



© 2010 Europa Technologies Image © 2010 DigitalGlobe © 2010 Google Google



Seabright Villa

Seabright Villa























© 2010 Europa Technologies Image © 2010 DigitalGlobe © 2010 Google Google

What is a WPX contest?

- * A 48 hour contest where everybody can work everybody
- * QSOs have points based on where the other station is (different continent, country, etc.)
- * Prefixes are multipliers (KP2 is a mult, W1 is a mult, KB7 is a mult, etc.)
- Score is total points times total multipliers

CQ WPX activity

WPX Total Log Entries

SSB



Year

Goal: Set a record

CQ WPX Contest Score Records for Virgin Island

SSB (0000 - 2009)									
Single Opera	tor - QRP								
QRP ALL	NP2Q	1999	425,047	287					
QRP 10M	no entry								
QRP 15M	no entry								
QRP 20M	no entry								
QRP 40M	no entry								
QRP 80M	no entry								
QRP 160M	no entry								















BUDDIPOLE COMPONENTS



MOSLEY 2 ELEMENT TRIBANDER



ON A PAINTER'S POLE ON V4

K1P SPECIAL EVENT STATION

MOSLEY MINI-32-A

Frequency => 28, 21, 14 MHz

Forward Gain 10 meters, 2 element => 5.1 dBd 15 meters, 2 element => 4.5 dBd 20 meters, 2 element => 3.3 dBd

THIS IS A SPECIAL ORDER ITEM ~ CUT SUCH THAT THE MAXIMUM LENGTH FOR EACH PIECE IS 4 FEET.

THIS FITS INTO A HARD-SIDED GOLF BAG. Front-to Back Ratio 10 meters => 17 dB (avg.) 15 meters => 17 dB (avg.) 20 meters => 17 dB (avg.)

Boom Length => 6 feet Maximum Element Length => 16.67 feet Assembled weight => 8 pounds



Willing to take more?

- * Typical baggage allowance = 2x50 lbs + carry on
- * Golf bag counts as a single bag but can be up to 70 lbs
- * XYL gives you extra allowance!



Tradeoff time

- * A triband antenna gives 3 bands for one run of coax. Saves 8 pounds (2 x 4 lbs for 100' RG-8X)
- * Four foot pieces requires hard-sided golf bag
- * Short boom provides only modest gain, but beats a dipole and can be rotated
- * Requires a mast system, possibly a painters pole or pipe
- * Does require time to setup and disassemble
- * Everything is a tradeoff!











7.5+ DBI AT 20 DEGREES

9+ DBI AT 30 DEGREES

15M 2-ELEMENT YAGI WITH 8 FOOT BOOM F/B RATIO 14+ DB



My world in the contest

🐔 NE1RDlogger.debug File Edit Data Entry Database Window Help		S 2	📕 🗿 🚺 🋜 📕 🖸 🖣 💽 (Charge	d) 💶 U.S. Sat 1:42 PM 🔅 B. Scott Andersen Q
CQ WPX	Radio data	QRZ lookup OOO	UTC	
21.00000 SSB Score Setup 15M QSOs Points Mults Call RST Serial 10M 0 0 VX6AO 59 156 160M 0 0 SENT: 59 156 160M 0 0	Connect 15m ■ Freq / Mode SS8 ■ □ µHam ■ ■ Supercheck Partial	Call sign: VX6AO CALGARY AMATEUR RADIO ASSOCIATION SPECIAL PREFIX FOR WINTER OLYMPICS QSL MRG.VE6TN - 113 MCKENZIE LAKE COVE SE	2010-03-27 Sat 12hr ⊻ uTC ⊻ Back	
Log it 17:42:16 2010/03/27 Totals 154 365 124 Prefix: VX6 QSOs: 154 Score: 45260		CQ zone ITU zone DXCC 5 9 1 Canada Previous QSOs VX6AO virr Since: 2010-03-25 Date Time Band Mode		STUFF
0.0.0. LOC:NETED://comparison/accourtBackton/K03_2010/log_databace.red	1			
Date Time Call Frequency Mode 2010-03-27 17:38:58 WASZUP 21.00000 SSB Age: Pro 2010-03-27 17:38:58 WASZUP 21.00000 SSB Contest QSO Sat/Prop 2010-03-27 17:38:58 WASZUP 21.00000 SSB Age: Pro 2010-03-27 17:38:58 WASZUP 21.00000 SSB Check: II 2010-03-27 17:38:55 NX7TT 21.00000 SSB Check: II 2010-03-27 17:33:35 NGMI 21.00000 SSB Class: TI 2010-03-27 17:31:06 ZY7C 21.00000 SSB Class: TI 2010-03-27 17:20:47 K4ROZ 21.00000 SSB Contacted Op: TI 2010-03-27 17:18:07 K9BGL 21.00000 SSB Contacted Op: Name: J SCOTT BOVITZ 2010-03-27 17:18:07 K9DO 21.00000 SSB SRX: SCOTT BOVITZ 2010-03-27 17:09:35 KZ7X 21.00000 SSB SRX:	QSL They Me cedence: tx Power: heir IOTA: eir Grid: ARRL Sec: STXn: 151 * rt Save changes	Mode 160 80 40 20 15 10 CW SSB I		buddipolfield.pdf
License Class: EXTRA Latitude: 18.37670 Longitude: 064.93149 Transceiver: Icom Power: 5 Antenna: Buddipole Antenna height 10 ASL 200 ARRL Section: Year first licensed (2 digits): 00 IOTA NA-106 County: US Virgin Islands Island ID: St Thomas email address: bsandersen@mac.com Club: Yankee Clipper Contest Club KP2-NELRI Quit program Revert to database copy Save changes Start logging				
		Help	KP2-2010	15m-yagi

My world in the contest

0 0		(CQ WPX			
21.00000		SSB		Score	Setup	
15M				QSOs	Points	Mults
			10M	0	0	0
Call	RST	Serial	15M	154	365	124
			20M	0	0	0
VX6AO	59		40M	0	0	0
			80M	0	0	0
	SENT: 59	156	160M	0	0	0
Log it	17:42:16 201	0/03/27	Totals	154	365	124
	Prefix:	VX6	QSOs:	154 9	Score:	45260
						Rescore



I sat and called CQ



PURE EVIL





I sat and called CQ

End of first day





7.5+ DBI AT 20 DEGREES

9+ DBI AT 30 DEGREES

15M 2-ELEMENT YAGI WITH 8 FOOT BOOM F/B RATIO 14+ DB

North America record

CQ WPX Co	ontest Score	Records 1	for North	Ame
	SSB (000	00 - 2009)		
Category	Call (Op)	Year	Score	WPX
Single Opera	ator - QRP			
QRP ALL	VP2EXX	1990	6,727,444	779
QRP 10M	NP4CC	1990	2,165,940	540
QRP 15M	NP4KA	1985	544,808	303
QRP 20M	6G0V (XE2Z)	2000	1,045,476	452
QRP 40M	N1TM	2009	67,482	138
QRP 80M	VE5RMO	1994	24,300	81
QRP 160M	VY2MGY/3	1998	14,400	45

World record

Rank	Call	Year	Category	Score	QSOs	WPX	Hours
1	RU9BB	2003	SO QRP 15M	788,190	747	390	17.3
2	RA0JJ	2002	SO QRP 15M	751,744	926	448	27.8
3	RW9AB	1992	SO QRP 15M	638,392	598	398	-
4	RA9UAD	2002	SO QRP 15M	601,290	621	393	48.0
5	NP4KA	1985	SO QRP 15M	544,808	816	303	-



End of contest



Final tally

794 QSOS 391 PREFIXES TOTAL SCORE = 676,039

Casual works, too

- A family vacation can be a great backdrop for a DXpedition
- * This is my first effort with a newly built K2
- * Most everything fit in a single carryon Pelican case
- Signal report before QRP indication to avoid the "discount"



Hawaii 2005

Comfortable position

If you plan on spending a lot of time in the seat, plan on having a comfortable work environment

If you rent a villa, see if there is a desk or office area that can be used for your shack



St. John, USVI 2006

Drive there

* K1P Special event
* Deer Isle, ME
* NA-055 (IOTA)













QSL card planning



Responsibilities

***** QSLing is a responsibility

- * Keep a good log. This means computer-based logging
- # Use Logbook of the World
- # Use eQsl

Have a BURO account

- * Have your QSL information clearly articulated on QRZ and other places
- * Turn around requests quickly
- * Plan on seeing some SWL cards

		-							
.og Se	earch								Club Log tools
his form neir logs.	allows you This servic	to check if yo e has been h	ou are "in the neavily optim	log". It only works f ised for large and/c	for registered Clui or popular logs.	b Log users and exp	peditions that hav	e uploaded	Upload Logs
Log to se	earch:	KP2/NE1RD)						DX Cluster
1546 QS	Os logged	up to 28/Mar/	/2010 23:452	Z					Log Search
Callsign	to check:	W8BI							Call Tester
Show co	ontacts								Expedition Tools
Band	CW	SSB	Data						Most-Wanted
15		1							DXCC Analysis
546 QSC)nline (Os logged u QSL Rec	p to 28/Mar/2 Juest to KI	2010 23:45Z P2/NE1R	D					Propagation Charts and Lea
546 QSC Online (Your ca	Os logged u QSL Rec all sign:	p to 28/Mar/2 juest to KI w88I	2010 23:45Z P2/NE1R) (required)					Propagation Charts and Lea DXCC Leagues Zone Leagues
546 QSC Online (Your ca Your en (optiona	Os logged u QSL Rec all sign: mail al):	p to 28/Mar/2 juest to KI W8BI	2010 23:45Z P2/NE1R) (required)					Propagation Charts and Leas DXCC Leagues Zone Leagues Club Leagues
546 QSC Online (Your ca Your en (optiona	Os logged u QSL Rec all sign: mail al):	p to 28/Mar/2 juest to KI	2010 23:45Z P2/NE1R) (required)					Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char
546 QSC Online (Your ca Your ca (optional Your co	Os logged u QSL Rec all sign: mail al): omments al):	p to 28/Mar/2 juest to Ki	2010 23:45Z P2/NE1R) (required)					Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines
546 QSC Online (Your ca Your ca (optional Your co (optional	Os logged u QSL Rec all sign: mail al): omments al):	p to 28/Mar/2 juest to Ki	2010 23:45Z P2/NE1R	D (required)					Propagation Charts and Leas DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines Mode/QSL Chart
546 QSC Online (Your ca Your en (optional Your co (optional Please	Os logged u QSL Rec all sign: mail al): omments al): enter your	p to 28/Mar/2 juest to Ki	2010 23:45Z P2/NE1R	D (required)					Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines Mode/QSL Charts
546 QSC Online (Your ca Your en (optional Please	Ds logged u QSL Rec all sign: mail al): omments al): enter your Date	p to 28/Mar/2 juest to Ki	2010 23:45Z P2/NE1R	D (required)	Band	Mode			Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines Mode/QSL Charts Zone Charts Log Size League
546 QSC Online (Your ca Your en (optiona Please QSO #	Ds logged u QSL Rec all sign: mail al): omments al): enter your Date	p to 28/Mar/2 juest to Ki	2010 23:45Z P2/NE1R	C (required)	Band	Mode			Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines Mode/QSL Charts Zone Charts Log Size League
546 QSC Online (Your ca Your ca (optiona Please QSO # (Clea	Os logged u QSL Rec all sign: mail al): omments al): enter your Date f1 ar Form (p to 28/Mar/2 Juest to Ki W8BI	2010 23:45Z P2/NE1R	C (required)	Band	Mode			Propagation Charts and Leag DXCC Leagues Zone Leagues Club Leagues Your DXCC Char Your Timelines Mode/QSL Charts Zone Charts Log Size League DX Challenges

eQSL



InBox Select	tor - eQSL.cc ×
← → C fi ☆	http://eqsl.cc/qslcard/InBoxSelector.cfm?Archive=0&Reject=0
📄 Publishing 🛛 EkaruM	ail 📄 DX 📄 Radio 📄 News a Amazon 🔝 Condo 💙 📄 Other Bookmarks
	KP2/NE1RD - USVI - InBox Selector Image: Comparison of the comparison of t
Callsian	Changes may take 2 minutes to show up here
	TABLE OF CONTENTS
FAQ Contact Us	[Bands] [Modes] [Dates] [Countries] [Entire]
	AG + Non-AG Bands 15M 2
USB Spectrum Analyzer	Modes SSB 2
to +15dBm, \$795 includes meas rcvr, AM/FM demod www.signalbound.com	AG Non-AG Combined Countries ITALY <u>1</u> All
Ads by Google	USA <u>1</u> <u>All</u>
Welcome New User	
EA7DH pepe pepe from SPAIN	
Last Heard	Select how you want to limit your search
40M: K9LZJ, N2ESE, more	Callsign:
eAwards	Band:All +
Latest <u>eGrid Satellite</u> winner: K8ZZU	Mode:All +
Latest <u>ePFX300</u> winner: E78DX	Dates: from: (MM/DD/YYYY) to (MM/DD/YYYY)
Latest <u>eDX100</u> winner: VE3WQ	Country:All 🗘
Latest <u>eDX</u> winner: W4GOV	AG Status: O All O AG O Non-AG
Latest <u>eWAS</u> winner: RZ0AF	Search
Latest <u>eZ40</u> winner: RA0ALM Power Users: <u>ZC4LI,AE5PW,HB9DHG</u>	Note: You can only access eQSLs that fall inside your QTH Start/End Period of 13-Sep-2002 00:00 - 13-Sep-2012 00:00 Go to <u>My Profile</u> if you need to make corrections
Latest <u>Authenticity</u> <u>Guaranteed</u>	Download entire InBox in ADIF format (for importing into some loggers)

Lotv

Award	Selected	Applied	Awarded	Total
Basic	47	0	0	47
<u>80M</u>	1	0	0	1
<u>40M</u>	1	0	0	1
<u>20M</u>	12	0	0	12
<u>17M</u>	2	0	0	2
<u>15M</u>	47	0	0	47
Phone	47	0	0	47
80M Phone	1	0	0	1
40M Phone	1	0	0	1
20M Phone	12	0	0	12
17M Phone	2	0	0	2
15M Phone	47	0	0	47
Triple Play	47	0	0	47
	• • • •		1	

4	Your Logb	ook QSOs	s × \	4							
→ C	f 2	ትttps:	//p1k.arrl.o	rg/lotwus	er/qsos?qso_query	=1&awg_i	d=∾_acct	=&qso_calls	ign=&qs	o_owncall	-8 -
Publishing	🖂 Ekarul	Mail 📄	DX 📄 Rad	lio 📄 Ne	ews 🖲 Amazon 🛛	Condo	Vahoo!	🗴 mac.com	1	» 📄 Othe	r Bookmarks
	DDI							Т	oday is T	'hu, 6 May	2010 UTC
пса	KKL									You a	re NE1RD
	-L'	1									Log Off
									You have	e 8,956 QS	O records
	TIÓU			YA	ESU				You hav	e 2,955 QS	SL records
				PRINCIP	PAL						
	OFTH	IE WORL	.D.	SPONS of the LoTW W	OR lebsite						
N Y		Costan cus	DE COSTANT CLIP	Cardination of	CLIP TRACEMENT CLIP						
	0					Harr	Your	Aurondo	Find	Upload	Your
NGINEENIN						Horr	usus	Awaros	Call	File	Account
QSOs Me	enu	¥									
Query		YourG	150s								
Download R	eport										
Statistic		QSO Qu	iery								
Statistic	5										
						New Query					
					25 Reco	<u>New Query</u> ords Shown	n (1-25)				
					25 Reco Sorted by QSL Dat	New Query ords Shown e (0.802116	n (1-25) 5 seconds ela	apsed)			
		[25 Reco Sorted by QSL Dat	New Query ords Shown e (0.802116	n (1-25) S seconds ela	apsed)			Next
		—	Call sign	Worked	25 Reco Sorted by QSL Dat	New Query ords Shown e (0.802116	n (1-25) seconds ela	apsed)			Next
		Details	Call sign KP2/NE1RD	Worked EA1EYG	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30	New Query ords Shown e (0.802116 Band Mod	e Freq 21,000000	apsed) QSL			Next
		Details Details	Call sign KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13	New Query ords Shown e (0.802116 Band Mod 15M SSB 15M SSB	e Freq 21.000000 21.000000	apsed) QSL SPAIN UNITED ST/	ATES OF	AMERICA	Next
		Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41	New Query ords Shown e (0.802116 Band Mod 15M SSB 15M SSB 15M SSB	e Freq 21.000000 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/	ATES OF	AMERICA	<u>Next</u>
		Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD	Worked EA1EYG K4RES LP2F W6XU	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14	New Query ords Shown e (0.802116 Band Mod 15M SSB 15M SSB 15M SSB 40M SSB	e Freq 21.000000 21.000000 7.250010	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/	ATES OF		<u>Next</u>
		Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16	New Query ords Shown e (0.802116 Band Mod 15M SSB 15M SSB 15M SSB 40M SSB 15M SSB	e Freq 21.000000 21.000000 7.250010 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF		
		Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02	New Query ords Shown e (0.802116 Band Mod 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB	e Freq 21.000000 21.000000 7.250010 21.000000 14.157950	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB	e Freq 21.000000 21.000000 7.250010 21.000000 14.157950 14.26330	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB	e Freq 21.000000 21.000000 7.250010 21.000000 14.157950 14.26330 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A	25 Reco Sorted by QSL Dat 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB 15M SSB	e Freq 21.000000 21.000000 7.250010 14.157950 14.26330 21.000000 21.000000 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE	25 Reco Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB	e Freq 21.000000 21.000000 7.250010 14.157950 14.26330 21.000000 21.000000 18.141000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERLA	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE KZ9O	25 Reco Sorted by QSL Dat 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-27 00:41:03	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB	e Freq 21.000000 21.000000 21.000000 21.000000 21.000000 14.157950 14.26330 21.000000 21.000000 18.141000 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERL/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD KP2/NE1RD VP2MRD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK N0KK K9QDA 5D5A HB9CVE KZ9O EA4CQT	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-27 00:41:03 2007-10-25 19:25:58	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB	e Freq 21.000000 21.000000 21.000000 7.250010 21.000000 14.157950 14.26330 21.000000 21.000000 18.141000 21.000000 18.163000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERLA UNITED ST/ SPAIN	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD KP2/NE1RD KP2/NE1RD KP2/NE1RD VP2MRD VP2MRD V4/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE K29O EA4CQT K9IA	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2005-11-20 08:38:14 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-27 00:41:03 2007-10-25 19:25:58 2007-02-01 22:09:00	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB 17M SSB	e Freq 21.000000 21.000000 21.000000 21.000000 21.000000 14.157950 14.26330 21.000000 18.141000 21.000000 18.141000 18.163000 18.152250	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERL/ UNITED ST/ SPAIN UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD KP2/NE1RD VP2MRD VP2MRD V4/NE1RD V4/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK N0KK K9QDA 5D5A HB9CVE K29O EA4CQT K9IA W3MRL	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-27 00:41:03 2007-10-25 19:25:58 2007-02-01 22:09:00 2007-10-25 19:35:26	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB 17M SSB 17M SSB	e Freq 21.000000 21.000000 21.000000 21.000000 7.250010 21.000000 14.157950 14.26330 21.000000 21.000000 18.141000 21.000000 18.163000 18.163000 18.163000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERL/ UNITED ST/ SPAIN UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD V4/NE1RD V4/NE1RD V4/NE1RD V4/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE K29O EA4CQT K9IA W3MRL W3MRL	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-27 00:41:03 2007-10-25 19:25:58 2007-02-01 22:09:00 2007-10-25 19:35:26 2007-02-01 20:04:25	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB 17M SSB 17M SSB 17M SSB	 (1-25) seconds ela e Freq 21.000000 21.000000 21.000000 21.000000 14.157950 14.26330 21.000000 18.141000 21.000000 18.163000 18.163000 18.152250 18.163000 18.152260 24.00000 	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD VP2MRD V4/NE1RD VP2MRD V4/NE1RD VP2MRD VP2MRD VP2MRD VP2MRD VP2MRD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK N0KK K9QDA 5D5A HB9CVE K29O EA4CQT K9IA W3MRL W3MRL W3MRL	25 Recc Sorted by QSL Dat 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-01 22:09:00 2007-10-25 19:35:26 2007-02-01 20:04:25 2010-03-28 13:12:13 2007 09 48 47:00:52	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB	e Freq 21.000000 21.000000 21.000000 21.000000 21.000000 14.157950 14.26330 21.000000 21.000000 18.141000 21.000000 18.163000 18.163000 18.152250 18.163000 18.152260 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ MOROCCO SWITZERLA UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/	ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD NE1RD NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD VP2MRD V4/NE1RD V4/NE1RD V4/NE1RD VP2MRD V4/NE1RD KP2/NE1RD KP2/NE1RD KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE K29O EA4CQT K9IA W3MRL W3MRL W3MRL SN3R WB5ASP	25 Recc Sorted by QSL Dat Date/Time 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-25 19:27:58 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-28 12:12:05 2007-02-01 22:09:00 2007-10-25 19:35:26 2007-02-01 20:04:25 2010-03-28 13:12:13 2007-08-18 17:09:52 2010-03-28 49:02:24	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 20M SSB 20M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB 17M SSB	e Freq 21.000000 21.000000 21.000000 21.000000 7.250010 21.000000 14.157950 14.26330 21.000000 18.141000 21.000000 18.163000 18.152250 18.163000 18.152250 18.163000 21.000000 21.000000 21.000000 21.000000 21.000000	QSL SPAIN UNITED ST/ ARGENTIN/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ UNITED ST/ SPAIN UNITED ST/ UNITED ST/	ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	
		Details Details	Call sign KP2/NE1RD KP2/NE1RD KP2/NE1RD NE1RD KP2/NE1RD NE1RD KP2/NE1RD KP2/NE1RD VP2MRD VP2MRD V4/NE1RD V4/NE1RD VP2MRD V4/NE1RD VP2MRD KP2/NE1RD KP2/NE1RD KP2/NE1RD KP2/NE1RD	Worked EA1EYG K4RES LP2F W6XU KA2CYN N0KK N0KK K9QDA 5D5A HB9CVE K9QDA 5D5A HB9CVE K29O EA4CQT K9IA W3MRL W3MRL SN3R WB5ASP KG2V	25 Recc Sorted by QSL Dat 2010-03-24 18:05:30 2010-03-28 21:55:13 2010-03-28 23:42:41 2005-11-20 08:38:14 2005-11-20 08:38:14 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-27 16:40:16 2005-11-20 21:24:02 2002-11-17 00:29:26 2010-03-28 12:12:05 2007-02-02 15:43:27 2010-03-28 12:12:05 2007-02-01 22:09:00 2007-10-25 19:25:58 2007-02-01 22:09:00 2007-10-25 19:35:26 2007-02-01 20:04:25 2010-03-28 13:12:13 2007-08-18 17:09:52 2010-03-28 18:03:31	New Query ords Shown e (0.802116 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 15M SSB 17M SSB	 (1-25) seconds ela e Freq 21.000000 21.000000 21.000000 21.000000 14.157950 14.26330 21.000000 18.141000 21.000000 18.163000 18.152250 18.163000 18.152260 21.000000 14.155000 21.000000 	QSL SPAIN UNITED ST/ UNITED ST/	ATES OF ATES OF	AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA AMERICA	

)) 4 F

Not rare, but well done

- * Have goals that make sense and work to them
- * Make a plan to fulfill these goals
- * Test everything as a system before you leave

* Follow through after your return with QSLing, score submission, log posting, etc.

Have fun. That's the point!

