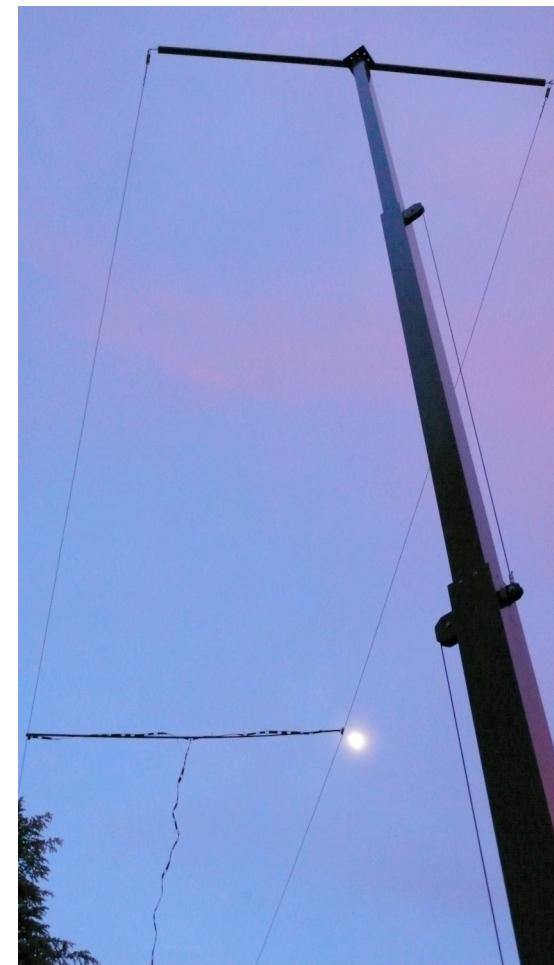
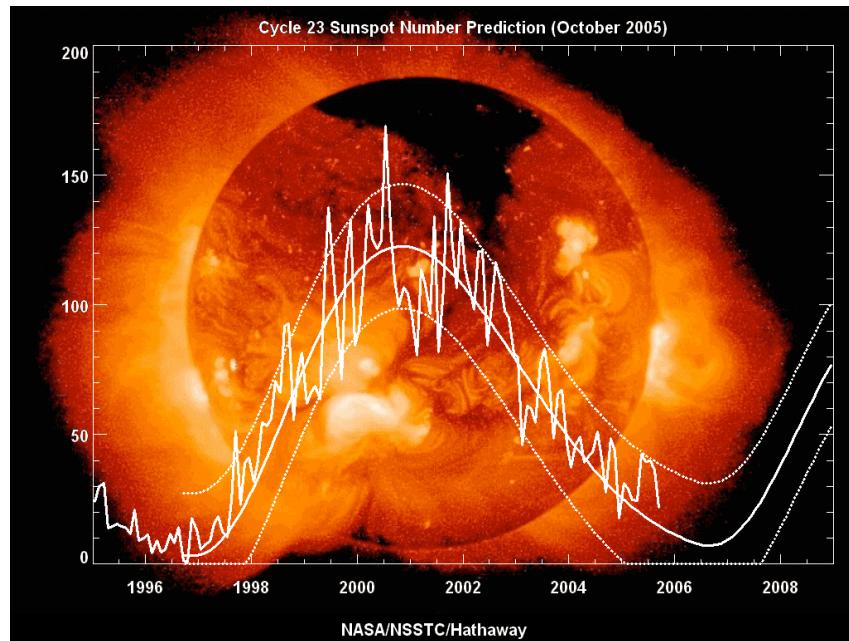


DXCC Honor Roll Antenna Strategies



DXCC Honor Roll Antenna Strategies

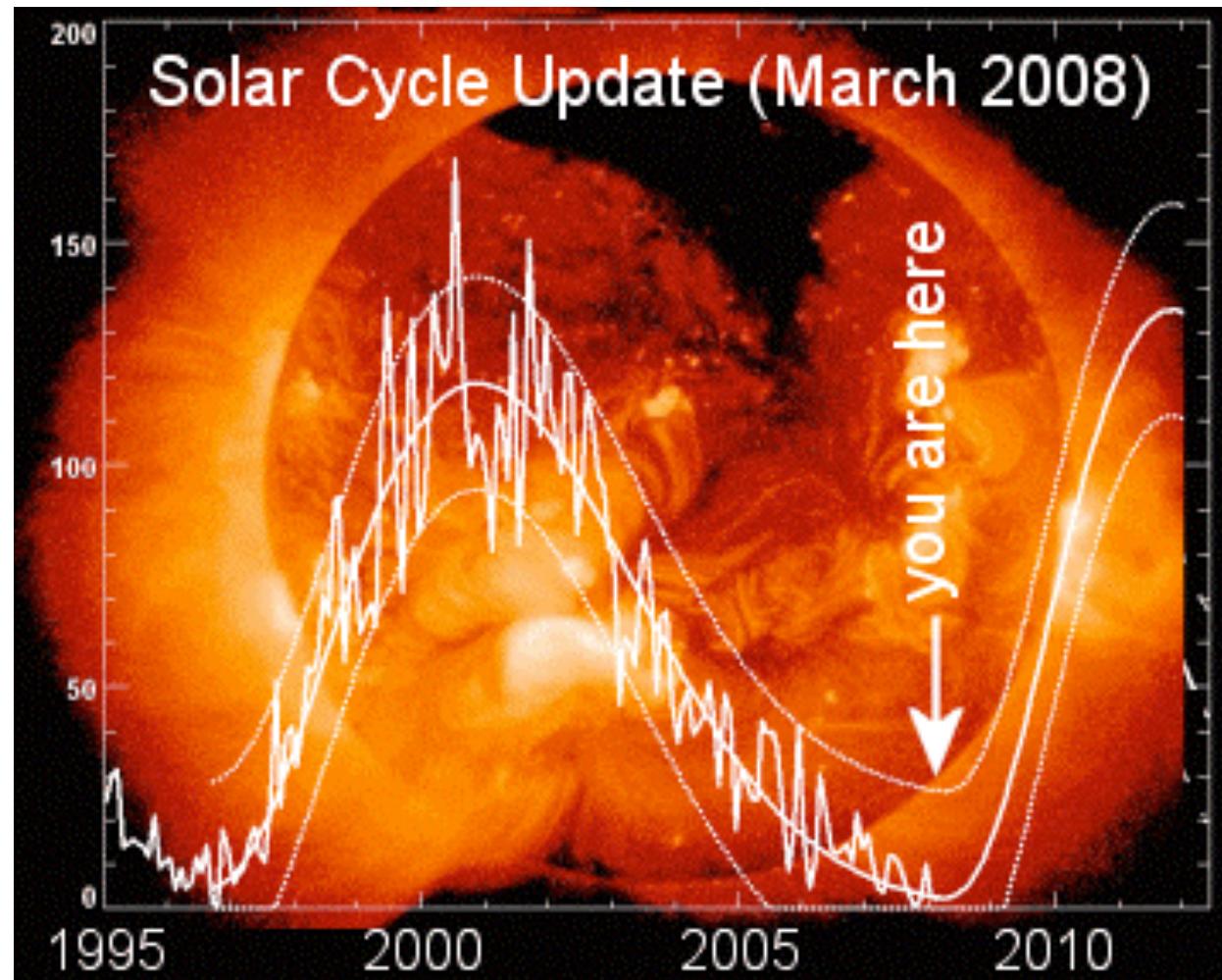
- Chasing DXCC Honor Roll is very much like playing chess - it's an exciting game of strategy and chance



November, 1951

DXCC Honor Roll Antenna Strategies

- Riding the sunspot cycle – that's what DX Antenna Strategy is all about



DXCC Honor Roll Antenna Strategies

- Background
 - ARRL DXCC = 100 (approved) entities from the current active list. Endorsement stickers after 100 entities
 - DXCC Challenge – band mode slot entities, awarded at 1000 and then every 1000 after that
 - 5BDXCC - DXCC on 5 bands, endorsements after first 5 bands
 - DXCC Honor Roll – “numerical top 10”. For example, 329 of those on the current list of 338 possible
 - #1 Honor Roll – when you’ve worked every entity on the current list

DXCC Honor Roll Antenna Strategies

- You could attain DXCC Honor Roll within one sunspot cycle if:
 - The numerical top ten entities are activated within a cycle, and you worked and confirmed them all
 - You hone your operating skills, and have Extra class privileges
 - You have a good receiver and great antennas (but you can hone your strategy to make the best out of what you can put up – and then set your expectations accordingly (realistically))
 - Great antennas + skill + amp = get there faster

DXCC Honor Roll Antenna Strategies

- Regardless of antenna strategy - it is more likely that it will take 1 ½ to 2 sunspot cycles, because:
 - Political world changes prevent some entities from being activated (i.e. P5, EZ, YI, etc)
 - Environmental concerns prevent some entities from being activated (i.e. KP1, ZL9, YV0, K5K, etc)
 - Strategic / cost / safety concerns prevent some entities from being activated (i.e. 3Y0X, HK0/M, VK9W, BS7H, etc)
 - New entities keep the list growing (YU6, KH8S, FJ, etc)

DXCC Honor Roll Antenna Strategies

- DXCC Honor Roll, for the average ham, (living with modest means and in an urban, suburban, or rural environment, with time, money or real estate constraints) can still attain Honor Roll within two cycles by:
 - Understanding Propagation
 - Building / buying / erecting the best antennas that give you the highest probability to work the entities that you need
 - Honing your pileup skills

DXCC Honor Roll Antenna Strategies

- DXCC “Standing” means where you are in the chase
 - At first, 100 watts and a simple dipole / doublet will easily net you your first 100 countries - even at the bottom of the sunspot cycle on the West Coast.
 - Oceania, Asia, North, Central and South America and the Caribbean offer enough to get you there with a modest setup. You could easily attain DXCC on 80, 40 and 30 meters in one year, even when 20 meters and above seem “dead”

DXCC Honor Roll Antenna Strategies

- The next hundred starts really testing your “mettle”
 - You will start learning about “grey line” propagation and the low(er) bands
 - You will constantly think and tweak your antenna farm
 - You will read Bob Lochers DX-ing book

DXCC Honor Roll Antenna Strategies

- From 200 - 300, you really start honing your skill
 - You check Spaceweather daily at the bottom of the cycle – and praying for sunspots
 - You check ADXO daily for new dx-peds for those you need
 - You wonder why certain entities even are on the list (the one's you need but think will never be activated)
 - You have subscriptions to every DX magazine possible
 - You get really frustrated and wonder why you are stuck at 275 for so long
 - You mumble to yourself “its only a hobby” . . .

DXCC Honor Roll Antenna Strategies

- When you hit 300, you are very proud to be part of the “300 Club”. You go to Visalia hoping everyone will notice you (and a few actually do know you just from your call and hearing you on the air)
 - But then you are seriously humbled when they do the “last man standing” drill at the banquet, and several OT’s have over 350 entities
 - You realize that at 300 - you are (again) just starting on your journey
 - You will be very surprised how many very rare entities are activated at the bottom of the cycle – and that you can actually work them
 - Your skill level has risen to where even the tough / rare one’s seem to come a bit easier
 - You don’t sit there in pileups for hours any more – you really know when it is most likely that you will work them, and you are much more efficient with your use of time

DXCC Honor Roll Antenna Strategies

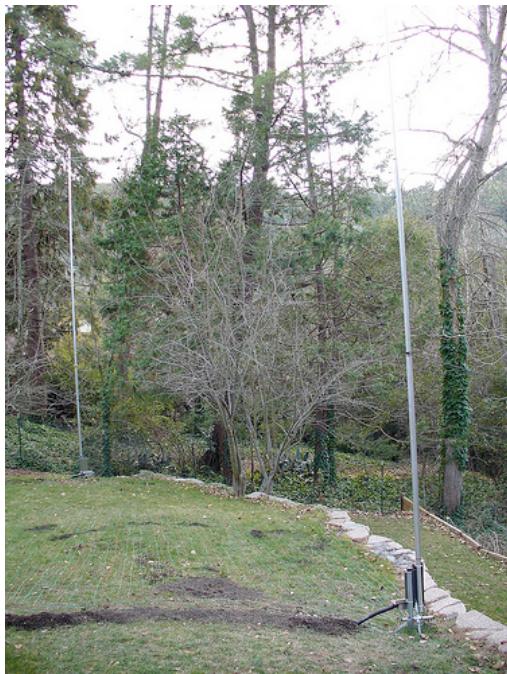
- Amazingly, going from 300 - 320 goes faster than you ever expected
 - This is because you now have attained something the average Joe on the street during this “internet age” lacks – patience and skill
 - You even have more patience with your kids (but NOT your “ex”)
 - You can easily see what it will take to get to the finish line, and are almost sad that its almost over (there’s always DXCC #1 Honor Roll, QRP DXCC, and DXCC Challenge!)
 - You understand how its all about the journey, and that DX IS

DXCC Honor Roll Antenna Strategies

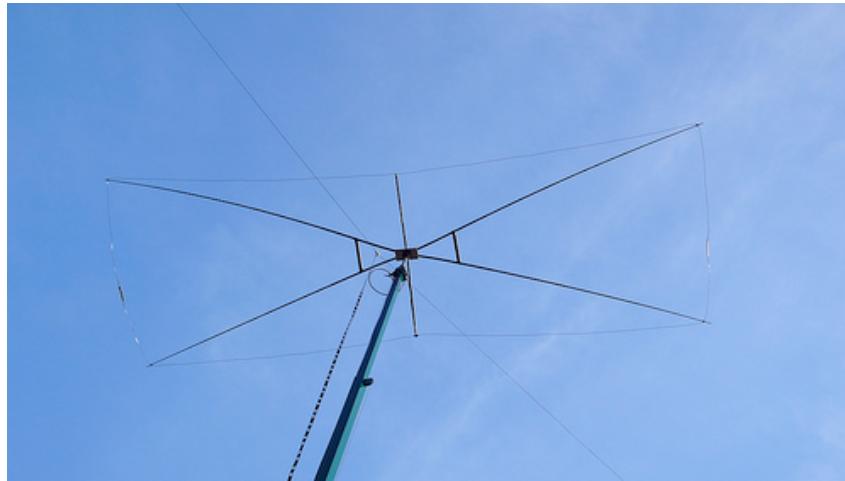
- After 320 - you can look back and see that 20 meters still was most productive, even though you would never admit liking the band
- You also see that 40 meters was a closer second than you ever would have thought
- You could pick a few bands and put up some REALLY killer mono-band antennas
- You could point a bi-directional array or stack a few mono-banders for those last one's
- If you live on the West Coast, NE - SW is where its at. The toughest one's left are there
- There are even a few “easy one's” that you could snag with not much more than a dipole (if someone would just activate them!)
- There is now enough time to try different antennas - the DX-peds seen to come few and far between (for those entities that you still need)



30M Bobtail



Phased 40M Verticals



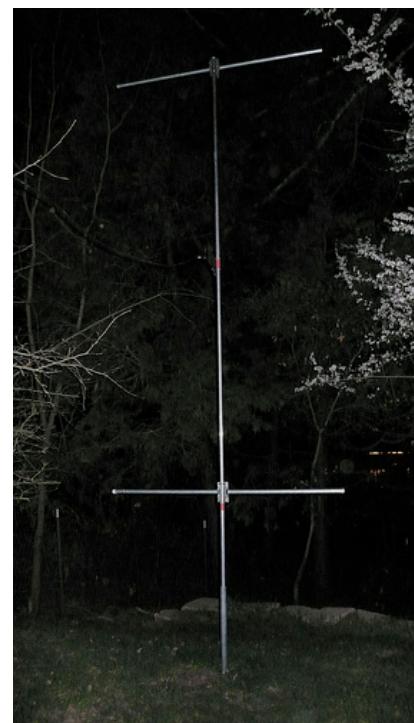
20M Moxon



2 Element SteppIR



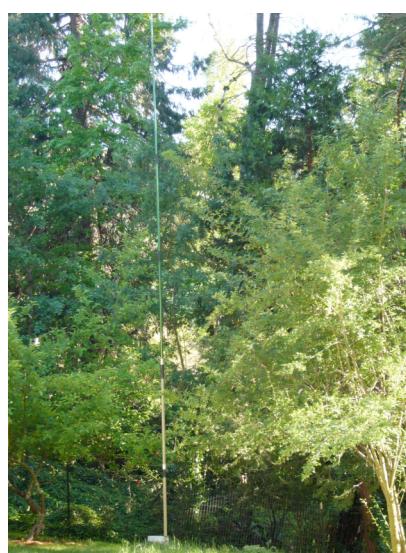
LC Circuit



20M SHVD



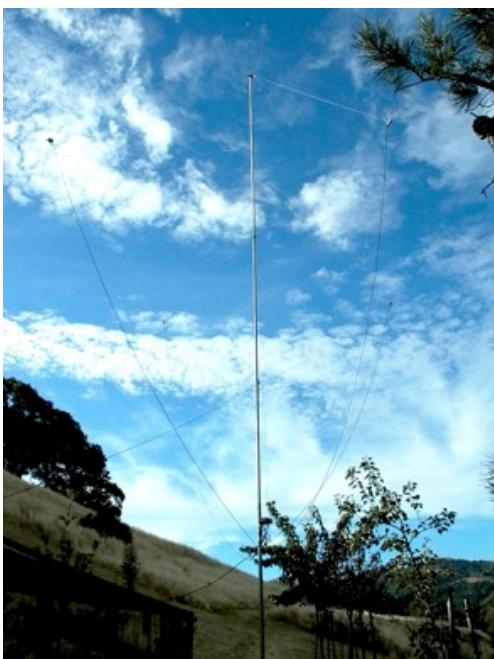
20M 4 Square



SteppIR BigIR



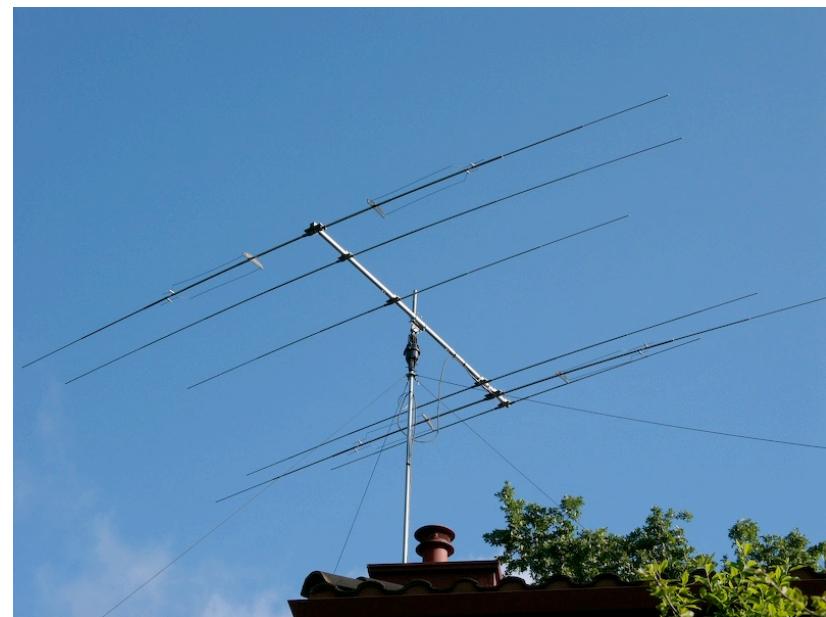
MA5B



K1WA



MA8040V



C3SS

DXCC Honor Roll Antenna Strategies

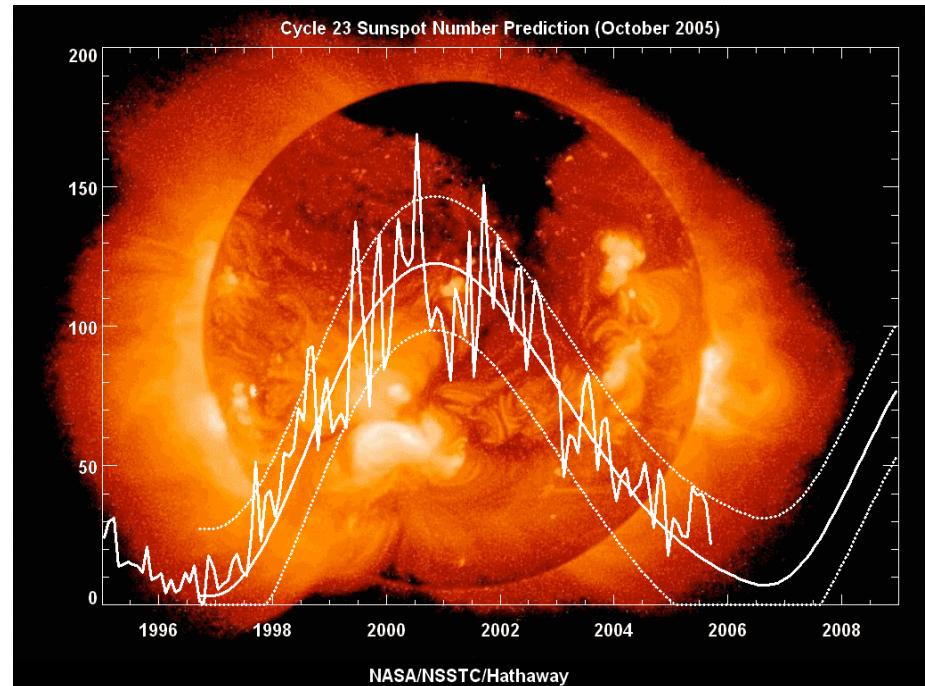
- I need an antenna strategy to get to Honor Roll
- This can be done in three steps:
 1. Data mine your logbook
 2. Understand Propagation and chart where you have been, where you are, and where you are going in the Sunspot Cycle
 3. Combine information from steps 1 and 2 and an antenna strategy will “fall out”

DXCC Honor Roll Antenna Strategies

- Data Mine Your Logbook. Look at your logbook, and come up with questions to answer, such as:
 1. What bands, modes, power and antennas did I use to get really rare new one's at the bottom of the cycle?
 2. What do I mean by "rare one's"?
 3. What do I mean by "bottom of the cycle"?
 4. Did I really need to buy that yagi and amp - even though I promised I never would? What was the cost of the new one's with the amp and yagi vs. before - when times were simpler (200 watts and wire only?)
 5. When can I get back to wire and just 200 watts max - and ditch the yagi and amp? (Or should I even consider this at all?)
 6. What beam heading(s) do I need for the last 8 - for DXCC Honor Roll?
 7. What antennas should I have up now?
 8. How many all time new ones did I work at sunspot minima, with no gain and no amp? (And every machination thereof).
 9. What were my most productive bands since 2001?
 10. What were my most productive antennas since 2001?

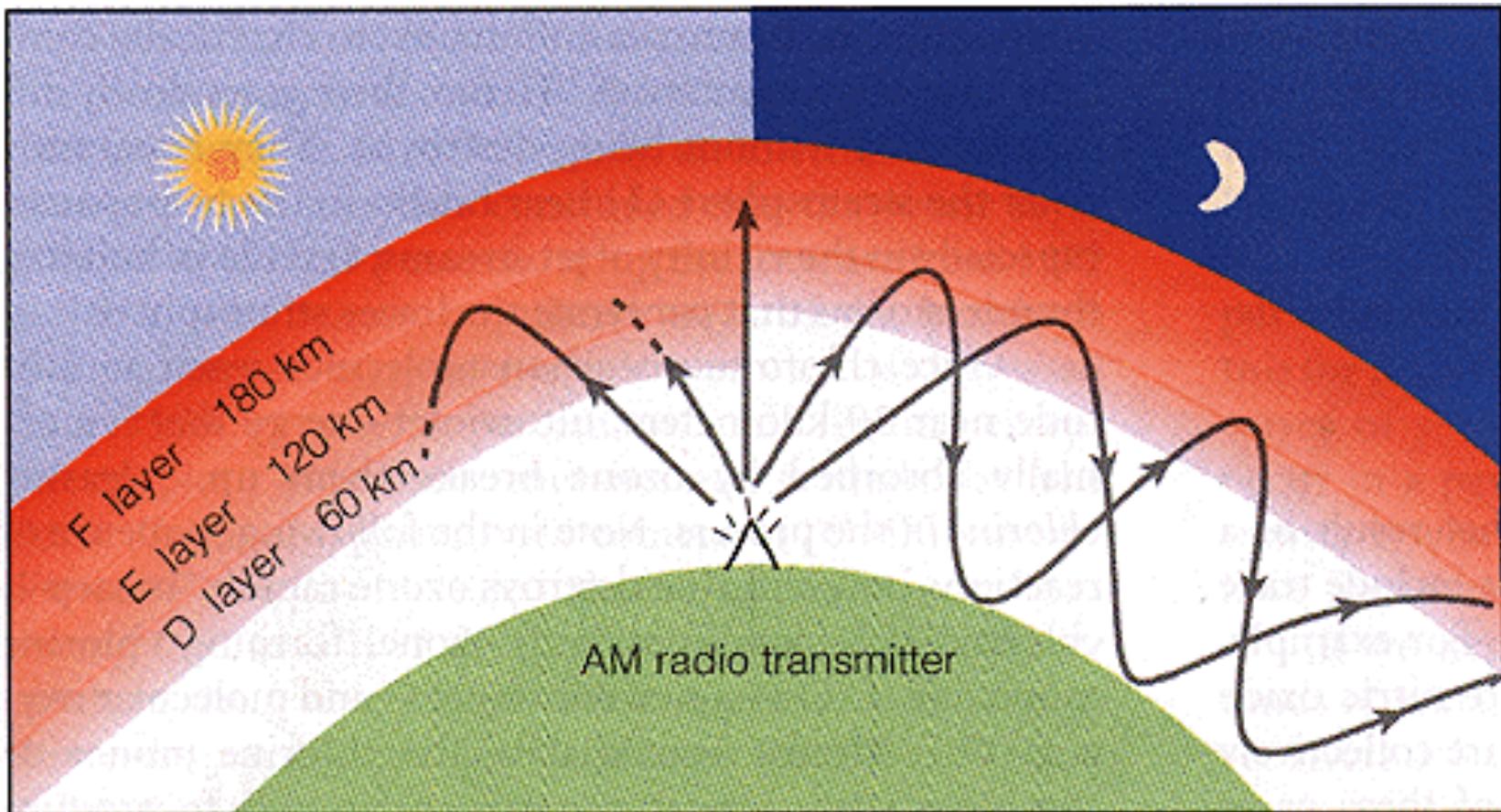
DXCC Honor Roll Antenna Strategies

- Propagation
 - There is always “good propagation” on some band at just about every point in the sunspot cycle
 - Low / High Bands
 - Day / Night
 - Season



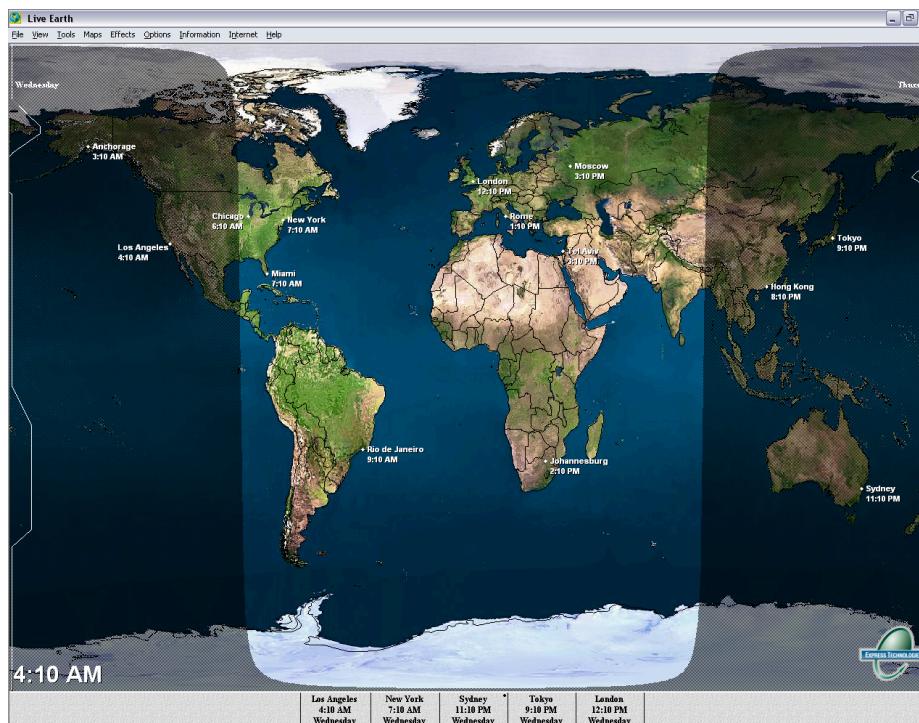
DXCC Honor Roll Antenna Strategies

- High bands during the day, low bands at night
- Low bands best at sunspot minima, high bands best at sunspot maxima
- Become a grey line expert!



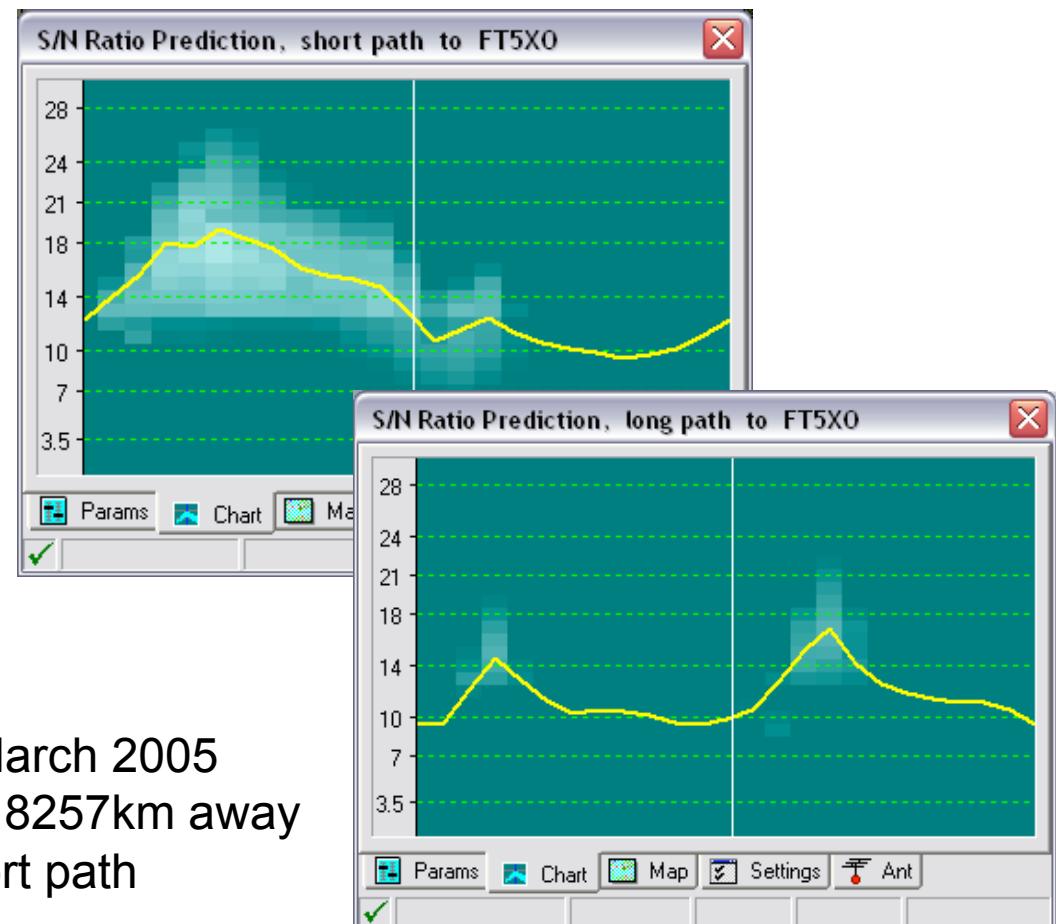
DXCC Honor Roll Antenna Strategies

- Luckily, there is the grey line and night time on the Low Bands. Summertime electrical storm noise and length of darkness is the mitigating factor. I was able to work EU and AF with 200 watts or less and zero gain antennas easily during the 2001 – 2007 winter DX “seasons” on 40M and 30M.



DXCC Honor Roll Antenna Strategies

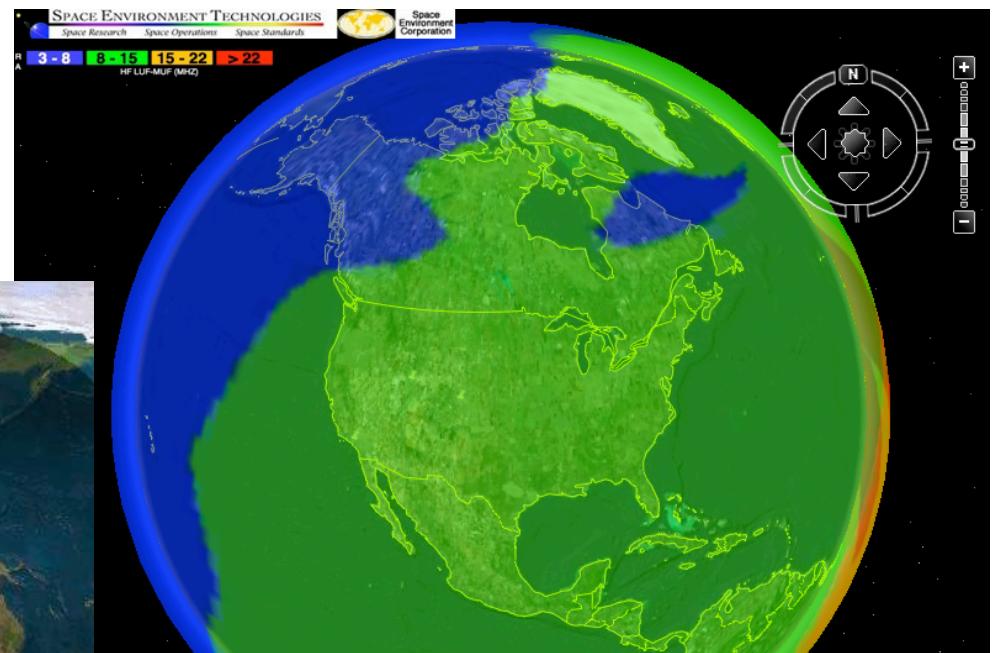
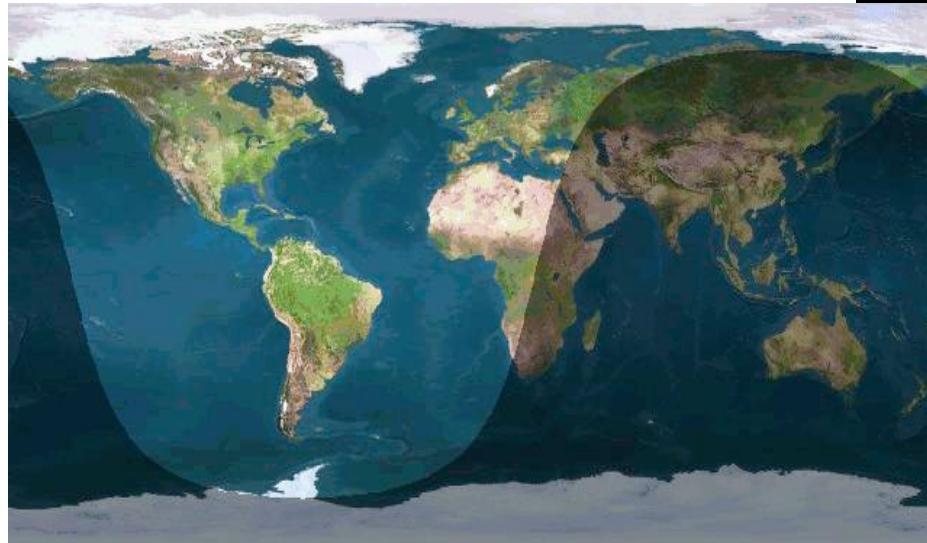
- Grey Line Propagation
 - Key for working EU on 40 and 30M during December - February, and many AF and ME all year round



1155Z (3:55 AM PST) – FT5XO – March 2005
They had 100w and vertical dipole 18257km away
(11344 statute miles) - Stronger short path

DXCC Honor Roll Antenna Strategies

- I was very surprised to work an OX past sunrise on 80M SSB – and how easy and clear he was. This is one of the best DX “features” during cycle 23 sunspot minima (May 1, 2008 at 9:15 AM PST)



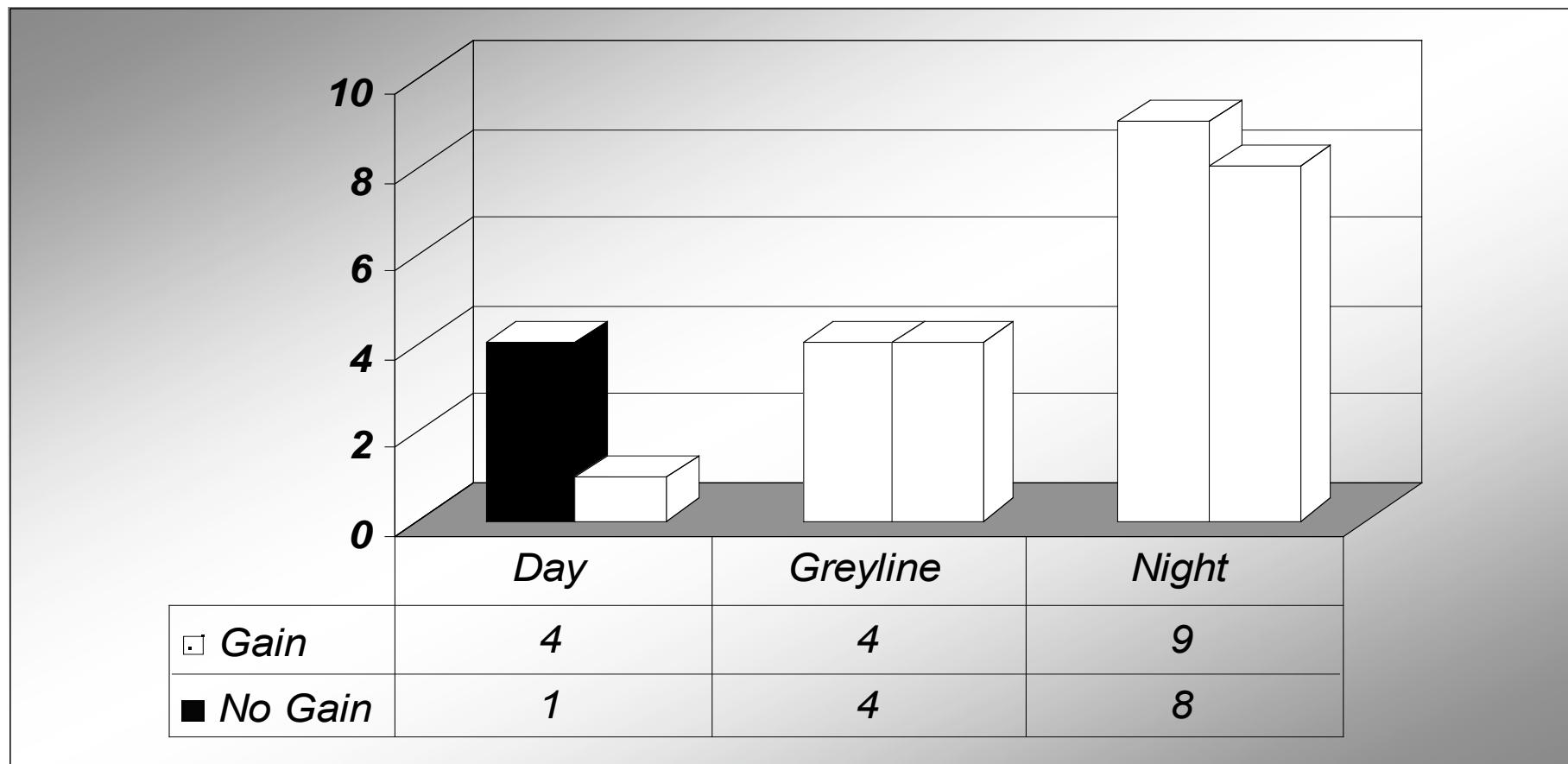
DXCC Honor Roll Antenna Strategies

DX	ZONE	PWR	DATE	SSN	BAND	ANT	GAIN	TOD	SIMILAR NEED	SCHED DX-PED
ET	37	400 W	JUL-11-2004	58	20 CW	K1WA	4 DB	NIGHT	7O	
A92	21	1 KW	MAR-23-2005	42	20 SSB	2 EL HB YAGI	4 DB	NIGHT	J2, E3	J2 - ONGOING
TL	36	1 KW	NOV-22-2005	45	20 SSB	C3SS	4 DB	DAY		
TT	36	600 W	SEP-11-2004	87	20 CW	K1WA	4 DB	NIGHT		
FT5	39	1 KW	MAR-16-2005	58	20 SSB	2 EL HB YAGI	4 DB	GREYLINE	FT5Z, VK0/H	
VU4	26	1 KW	APR-24-2006	24	40 CW	Bigir	0 DB	GREYLINE		
VU7	22	1 KW	JAN-20-2007	15	40 SSB	Phased Verts	4 DB	GREYLINE		
5A	34	1 KW	NOV-22-2005	38	40 CW	Phased Verts	4 DB	NIGHT		
TO4E	39	1 KW	DEC-13-2003	35	40 CW	HB SHVD	0 DB	GREYLINE	FR/G	Oct-12
8Q7	22	600 W	FEB-22-2003	87	20 CW	MA5B	3 DB	GREYLINE		
SU	34	600 W	NOV-26-2003	202	40 CW	SHVD	0 DB	GREYLINE	E4	
3B7C	39	1 KW	SEP-16-2007	0	40 CW	Phased Verts	4 DB	GREYLINE	ZS8T	2008 - 2009
EZ	17	600 W	AUG-28-2004	33	20 CW	K1WA	4 DB	DAY	EP	ONGOING
YI	21	200 W	FEB-12-2003	34	30 CW	SHVD	0 DB	GREYLINE	EP	ONGOING
AP	21	600 W	SEP-30-2002	206	15 SSB	MA5B	4 DB	GREYLINE	EP	ONGOING
A71	21	600 W	FEB-25-2003	44	17 SSB	MA5B	4 DB	GREYLINE	J2, E3, 7O, E3	J2 - ONGOING
SO5X	33	600 W	APR-20-2007	0	20 CW	SIGMA 5 GT	0 DB	GREYLINE		
TY	35	200 W	APR-21-2003	93	30 CW	HB SHVD	0 DB	NIGHT		
5V	35	200 W	MAY-23-2003	110	30 CW	HB SHVD	0 DB	NIGHT		
TZ	36	200 W	AUG-17-2003	92	30 CW	HB SHVD	0 DB	NIGHT		
TR	36	200 W	MAR-12-2003	121	30 CW	HB SHVD	0 DB	NIGHT		
3C0V	36	600 W	OCT-1-2003	116	15 SSB	SIGMA 5 GT	0 DB	DAY		
A52	22	600 W	JAN-13-2004	77	40 CW	HB SHVD	0 DB	GREYLINE		
6O	37	1 KW	NOV-22-2004	27	40 CW	HB SHVD	0 DB	GREYLINE	J2, E3, 7O, E3	J2 - ONGOING
TN	36	1 KW	DEC-08-2004	26	40 CW	HB SHVD	0 DB	GREYLINE		
T6	21	600 W	MAY-6-2005	22	20 CW	C3SS	4 DB	GREYLINE	EP	ONGOING
D6	39	600 W	FEB-21-2007	27	17 SSB	2 EL STEPPIR	4 DB	DAY		
3Y0X	12	1 KW	FEB-24-2007	22	17 CW	2 EL STEPPIR	4 DB	DAY		
3C7	36	1 KW	OCT-08-2007	13	20 CW	2 EL STEPPIR	4 DB	GREYLINE		
9X	36	1 KW	FEB-15-2008	0	20 CW	2 EL STEPPIR	4 DB	GREYLINE		

Hardest – Worked since 2001

DXCC Honor Roll Antenna Strategies

- What was the most productive time of day to work all time new one's from 2001 until now?



DXCC Honor Roll Antenna Strategies

		160	80	40	30	20	17	15	12	10	6	ENTITY
2006	JAN											
	FEB		X	X	X	X	X					3Y0X
	MAR											
	APR			X								VU4
	MAY			X								J5
	JUN											
	JUL											
	AUG											
	SEP				X							TT
	OCT											
	NOV		X				X					5A
	DEC											
2007	JAN			X								VU7
	FEB					X						9U
	MAR											
	APR											
	MAY				X							BS7H
	JUN											
	JUL					X						1A4
	AUG											
	SEP		X	X	X	X						3B7C
	OCT											
	NOV											
	DEC					X						FJ
2008	JAN											
	FEB						X					9X
	MAR		X	X	X	X	X	X	X	X		FO/C
	APR											
	MAY											
	JUN											
	JUL											
	AUG											
	SEP											
	OCT											
	NOV											
	DEC											

What were the most productive bands at the bottom of cycle 23 (2006 – 2008)?

20M = 8

40M = 7

DXCC Honor Roll Antenna Strategies

- What do I need, and what might activate in 2008?

There are 8 entities that either are on the air normally, or will be in a planned DX-pedition in 2008:

DX NEEDED	ZONE	SP	LP	DIR	DX-PED PLANNED
3Y - BOUVENT	38	132	312	SE-NW	
7O - YEMEN	21	16	196	NE-SW	
E3 - ERITREA	37	22	202	NE-SW	
E4 - PALESTINE	20	21	201	NE-SW	
EP - IRAN	21	5	185	NE-SW	ONGOING
FR/G - GLORIOSO	39	22	202	NE-SW	Oct-08
FR/T - TROMELIN	39	8	188	NE-SW	
FT5Z - AMSTERDAM	39	267	87	E-W	
HK0/M - MALPELO	10	122	302	SE-NW	Rumored - Fall 2008
J2 - DJIBOUTI	21	13	193	NE-SW	ONGOING
KH5K - KINGMAN	31	241	61	NE-SW	
KP1 - NAVASSA	8	102	282	SE-NW	
SV/A - MT ATHOS	20	25	205	NE-SW	ONGOING
VK0 - HEARD	39	211	31	NE-SW	
VK9W - WILLIS	30	256	76	NE-SW	Oct-08
VP8 - S. SANDWICH	13	140	320	SE-NW	Possible stop over in 2008
ZL9 - AUCKLAND	32	207	27	NE-SW	
ZS8 - MARION	38	128	308	SE-NW	2008 - 2009

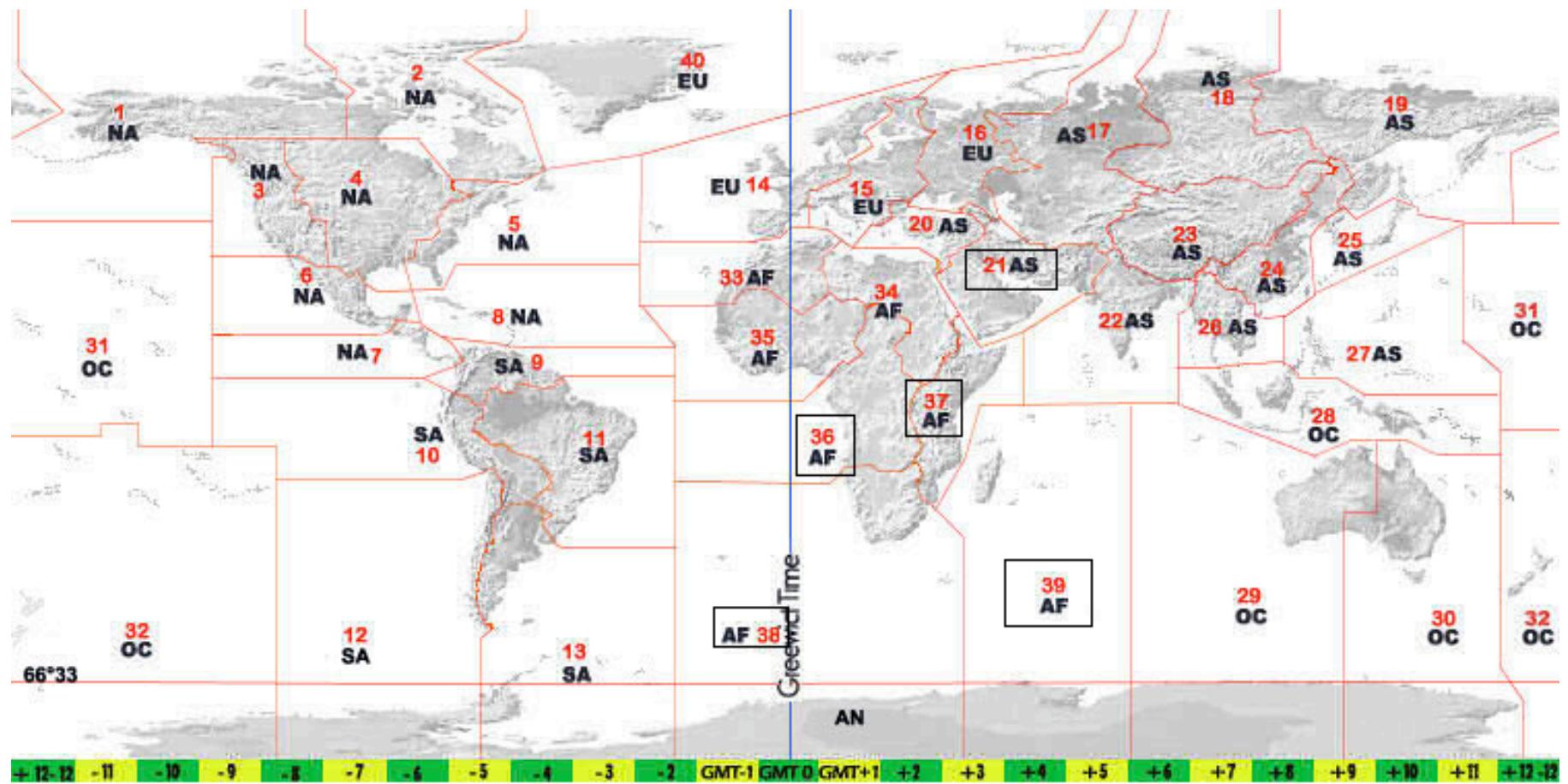
DXCC Honor Roll Antenna Strategies

- What potential all time new one's will be activated in 2008?

<http://www.cpcug.org/user/wfeidt/Misc/adxo.html>

Announced DX Operations - Microsoft Internet Explorer																																							
http://www.cpcug.org/user/wfeidt/Misc/adxo.html																																							
<table border="1"><thead><tr><th>2005 Feb10</th><th>2005 Feb22</th><th>Trinidad & Tobago</th><th>9Y4</th><th>YL2KL</th><th>YL2KL 20050204</th><td>By YL2KL YL2LY YL2GM as 9Y4/homecall fm Tobago Is; All bands; CW SSB RTTY; fm 9Y4ZC QTH</td><td>File</td><td>Edit</td><td>View</td></tr></thead><tbody><tr><td>2005 Feb10</td><td>2005 Mar14</td><td>St Vincent</td><td>J88DR <small>NEW</small></td><td>G3TBK</td><td>VA3RJ 20050210</td><td>By G3TBK fm NA-109; 160-10m; mainly CW RTTY, some SSB; QSL OK via Buro or direct</td><td>Back</td><td>Forward</td><td>Search</td></tr><tr><td>2005 Feb11</td><td>2005 Feb15</td><td>Antarctic</td><td>3Y2SNA <small>NEW</small></td><td>LA2SNA Buro</td><td>I28CCW 20050209</td><td>By LA2SNA fm Norwegian "Troll Station" (Jutulsessen, Queen Maud Land, AN-016); 20 17m; SSB; as time permits</td><td>Links</td><td>Print</td><td>Favorites</td></tr></tbody></table>										2005 Feb10	2005 Feb22	Trinidad & Tobago	9Y4	YL2KL	YL2KL 20050204	By YL2KL YL2LY YL2GM as 9Y4/homecall fm Tobago Is; All bands; CW SSB RTTY; fm 9Y4ZC QTH	File	Edit	View	2005 Feb10	2005 Mar14	St Vincent	J88DR <small>NEW</small>	G3TBK	VA3RJ 20050210	By G3TBK fm NA-109; 160-10m; mainly CW RTTY, some SSB; QSL OK via Buro or direct	Back	Forward	Search	2005 Feb11	2005 Feb15	Antarctic	3Y2SNA <small>NEW</small>	LA2SNA Buro	I28CCW 20050209	By LA2SNA fm Norwegian "Troll Station" (Jutulsessen, Queen Maud Land, AN-016); 20 17m; SSB; as time permits	Links	Print	Favorites
2005 Feb10	2005 Feb22	Trinidad & Tobago	9Y4	YL2KL	YL2KL 20050204	By YL2KL YL2LY YL2GM as 9Y4/homecall fm Tobago Is; All bands; CW SSB RTTY; fm 9Y4ZC QTH	File	Edit	View																														
2005 Feb10	2005 Mar14	St Vincent	J88DR <small>NEW</small>	G3TBK	VA3RJ 20050210	By G3TBK fm NA-109; 160-10m; mainly CW RTTY, some SSB; QSL OK via Buro or direct	Back	Forward	Search																														
2005 Feb11	2005 Feb15	Antarctic	3Y2SNA <small>NEW</small>	LA2SNA Buro	I28CCW 20050209	By LA2SNA fm Norwegian "Troll Station" (Jutulsessen, Queen Maud Land, AN-016); 20 17m; SSB; as time permits	Links	Print	Favorites																														
CQ/RJ RTTY WPX Contest (February 12-13, 2005) Check here for pericontest activity too.																																							
2005 Feb12	2005 Mar31	Crozet	NG3FT_W	F5BU	F5NQL 20041221	By F4EGX F5BU as FT1WK and FT5WJ fm Possession Is (AF-008); check 14278 kHz; SSB; spare time operation, end date unsure	File	Edit	View																														
2005 Feb13	2005 Mar22	Bahamas	NG3A <small>NEW</small>	AK0m	AK0M 20050208	By AK0M KCORD as C6ASB and C6ASC fm Eleuthera (NA-001, FL16); 160-6m; mainly CW, some SSB and digital; wire vrtx	Back	Forward	Search																														
2005 Feb13	2005 Feb26	East Malaysia	NG3M <small>NEW</small>	PA0RRS	VA3RJ 20050210	By PA0RRS as 9M6PA0RRS/8 fm Sarawak (OC-088); QSL OK via Buro or direct; Richard Smeets, Schoorveken 100, 5121NM Rijen, The Netherlands	Links	Print	Favorites																														
2005 Feb14	2005 Mar20	St Maarten	NG3K	PJ7	W8EB 20050203	By W8EB W8DVC; 160-10m; SSB CW PSK31	File	Edit	View																														
2005 Feb16	2005 Feb22	Fernando de Noronha	NG3K	W9VA	W9VVA 20041225	By W9VA; focus on WARC + 6m; QRV for ARRL DX CW as PY0FF	Back	Forward	Search																														
2005 Feb16	2005 Feb26	St Martin	FS	K9EL	OPDX 20050124	By K9EL as FS/K9EL; 40-10m, perhaps 80m; vertical + wires; 100w	Links	Print	Favorites																														
2005 Feb16	2005 Mar14	Dominica	NG3K	SM0CCM	SM0CCM 20050113	By SM0CCM; all bands; mainly CW RTTY, some PSK SSB; likely as few days as J70SWD fm Carib Indian Territory	File	Edit	View																														
2005 Feb17	2005 Feb24	North Cook Islands	ZK1	M3SDE Direct	SM6WET 20041202	By ZK1SDE ZK1SDZ fm Manihiki (OC-014); 160-10m w/focus on 20 17m, mainly SSB; yagis for 20 17 10m + vrtx	Back	Forward	Search																														
2005 Feb17	2005 Mar03	Peter I	3Y0X	K4YL Direct	N2WB 20040706	By an international team; dates tentative	Links	Print	Favorites																														
ARRL DX CW Contest (February 19-20, 2005) Check here for pericontest activity too.																																							
2005 Feb20	2005 Feb26	São Tomé & Príncipe	SG92RI		F5NQL 20050127	By CT1APE CT1FFU CT2GLO fm Ilheu das Rolas (AF-023); 160-6m; SSB CW RTTY PSK31	File	Edit	View																														
2005 Feb21	2005 Feb24	Antigua	NG3V	Home Call Direct	OPDX 20050124	By W1LR W4WX as V25LR and V25WX; 20-6m; mainly PSK31 RTTY	Back	Forward	Search																														
2005 Feb22	2005 Mar05	Peru	NG3OA	SM1TDE	SM1TDE 20041113	By SM1TDEas SM1TDE/OA4 fm Lima; 80-10m; focus on CW, WARC, QSL OK via Buro or direct	Links	Print	Favorites																														
2005 Feb22	2005 Mar09	British Virgin Islands	NG3VP	DL7DF	DL7DF 20050103	By DL7DF DL7UFR DL4WK; All bands, focus on low bands; SSB CW RTTY PSK31 SSTV, 3 stns, at least 1 str QRV 24 hrs/day	File	Edit	View																														
2005 Feb23	2005 Mar09	Trinidad & Tobago	9Y4DLH	DJ3FK	DJ3FK 20050120	By DD8ZX, DG3FK DH6ICE DJ3FK DJ9RB DK7LX DK7PE DK7TF DL1FDS DL4FP fm Tobago Is (SA-0009); 160-10m; SSB CW Digital	Back	Forward	Search																														

DXCC Honor Roll Antenna Strategies



Hardest – Needed CQ Zone Entities

DXCC Honor Roll Antenna Strategies

<http://www.njdx.org/dxcclist.shtml>

What directions are the entities that I need?



North Jersey DX Association presents DXCC Country List / Beam Headings

Beam Headings prepared for Rich, KY6R

Headings centered on Orinda, CA latitude 37.8748 longitude 122.1904

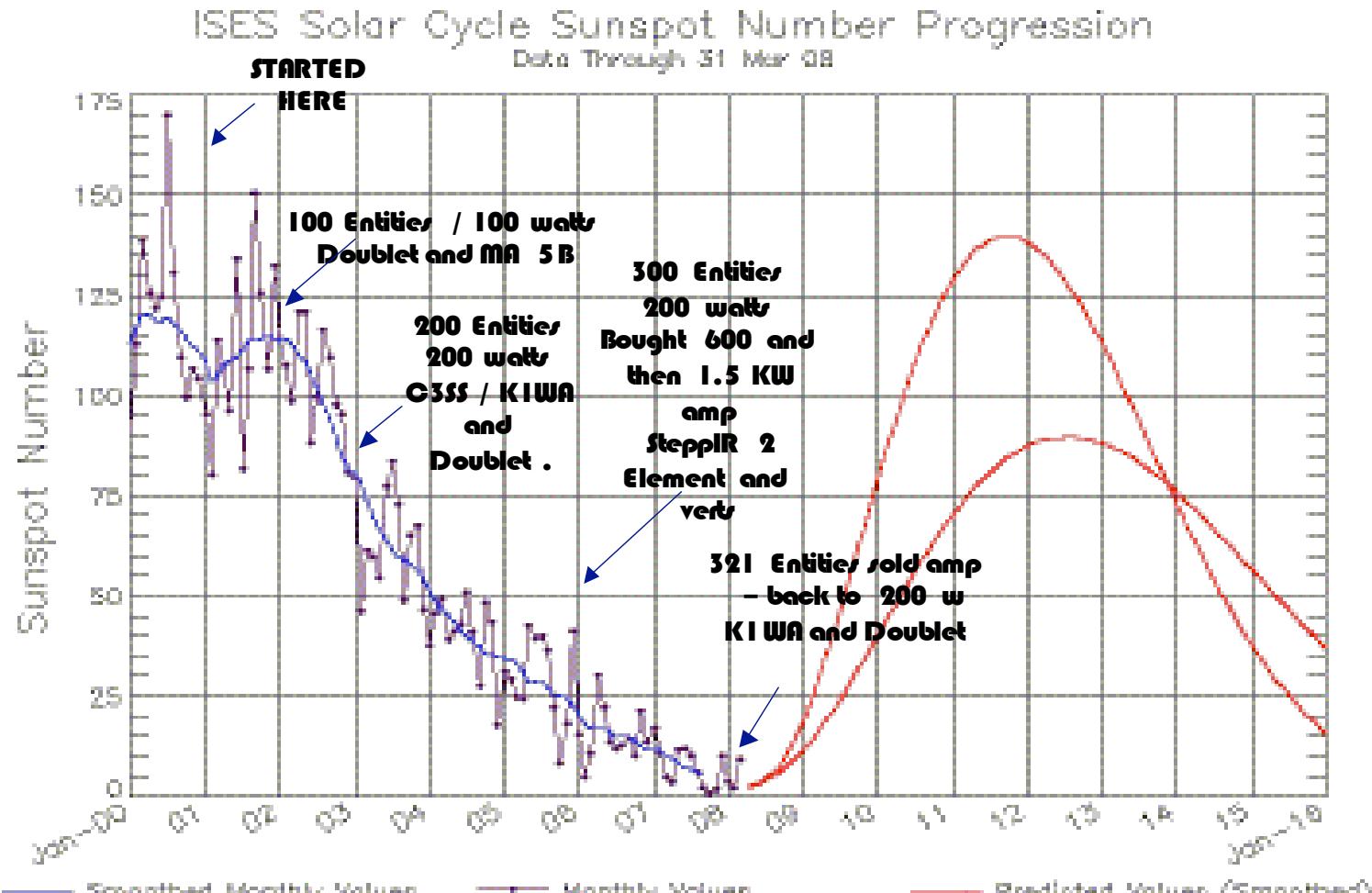
Prefix	Country	Short Path	Long Path	Miles	Latitude	Longitude	Continent	CQ Zone
KL7	Alaska	337	157	2,135	64.0	150.0	NA	1
HK0/M	Malpelo Is.	122	302	3,485	4.0	81.1	NA	10
OA	Peru	130	310	4,514	-12.0	77.0	SA	10
HC8	Galapagos Islands	138	318	3,360	-2.0	92.0	SA	10

DXCC Honor Roll Antenna Strategies

- CQ Zone's 21, 36, 37, 38 and 39 are the most difficult for me
- Signal to noise ratio is most important (3C0V story)
- Sunspots are better than an amplifier (2 or 3 sunspots makes the difference between hearing EU or not from the West Coast on 20 meters)
- Gain antenna is better than an amplifier
- Grey line is better than an amplifier
- I've worked just as many really tough one's with a vertical or dipole (zero or less gain) as I have with a 4 db yagi – but I did it during the Grey Line or at night on the low bands
- At the very bottom of the cycle – even “easy” DX is tough (BS7H and FJ/OH2AM)

DXCC Honor Roll Antenna Strategies

- KY6R Station Changes During SS Cycle 23



Updated 2008 Apr 7

NODA/SWPC Boulder,CO USA

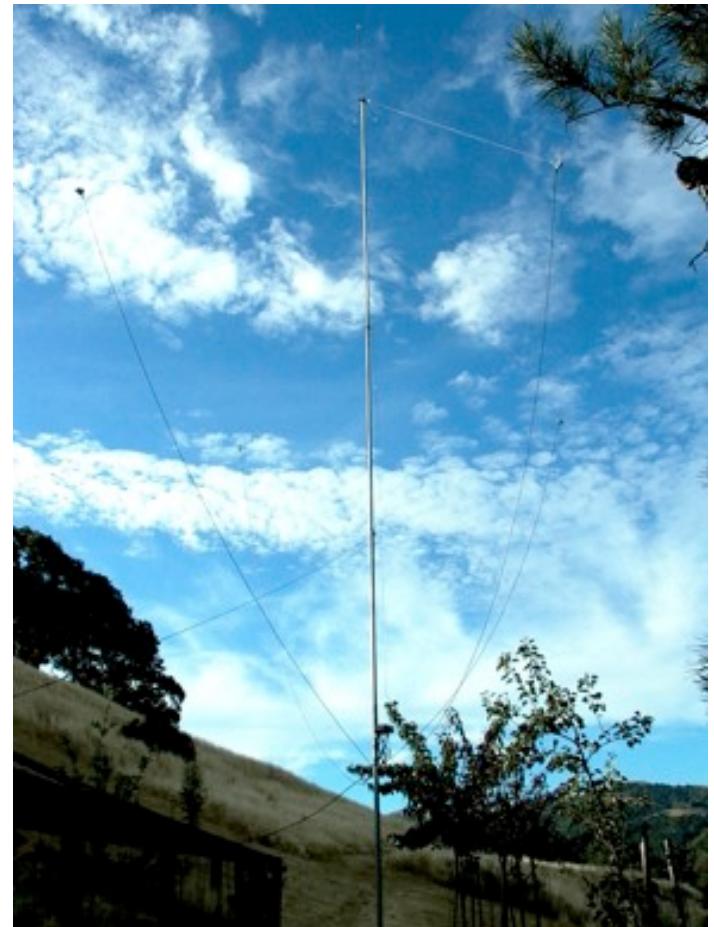
DXCC Honor Roll Antenna Strategies

- A gain antenna fixed in the NE-SW direction would pretty much cover everything possible for me in 2008
- Stealthy Wire antenna choices:
 - A Half Square (3 DB), K1WA Array (4 DB), Bobtail Curtain (5+ DB) or 5 element Bruce Array (5+ DB) in the NE-SW direction would work as well as a yagi on my tower – but cost MUCH less and be more “stealthy”
 - The Half Square and Bruce Array are very easy to deploy – and I can get them up at the optimal height and direction
 - I tried a W8JK array, and it was “interesting”, but not what I really wanted (which was a 1:1 replacement of my SteppIR 2 element for 20M)

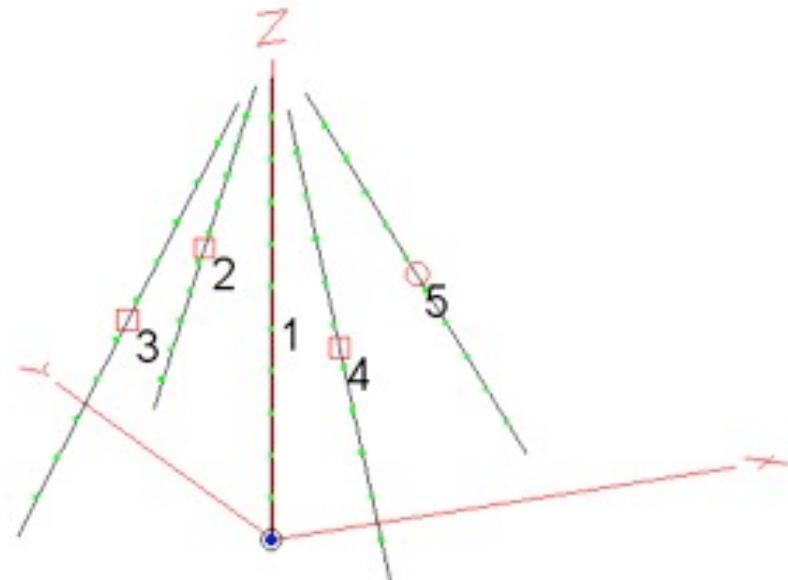
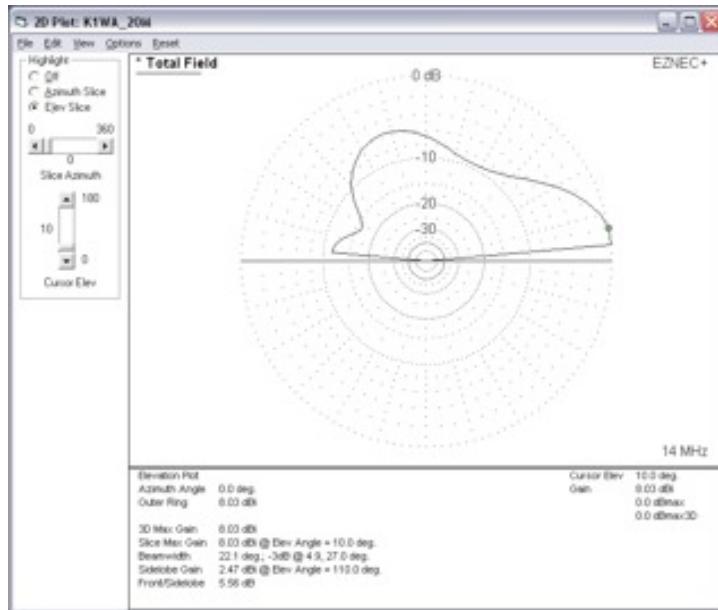
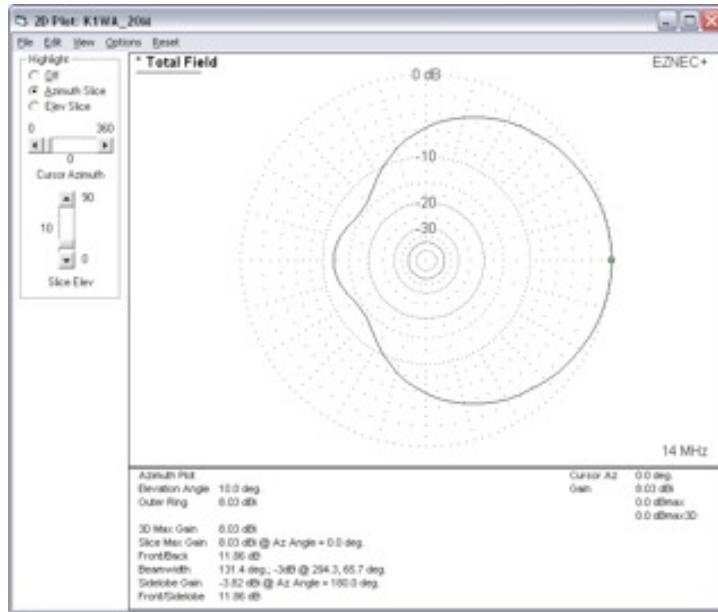
DXCC Honor Roll Antenna Strategies

- K1WA Array (20 M)

- Bi-directional, NE/SW
- 4 db gain, 12 db F/B
- Excellent side rejection
- Low takeoff angle
- Great Signal to Noise ratio (S/N)
- Performs just like a 2 element SteppIR yagi (but better S/N ratio)

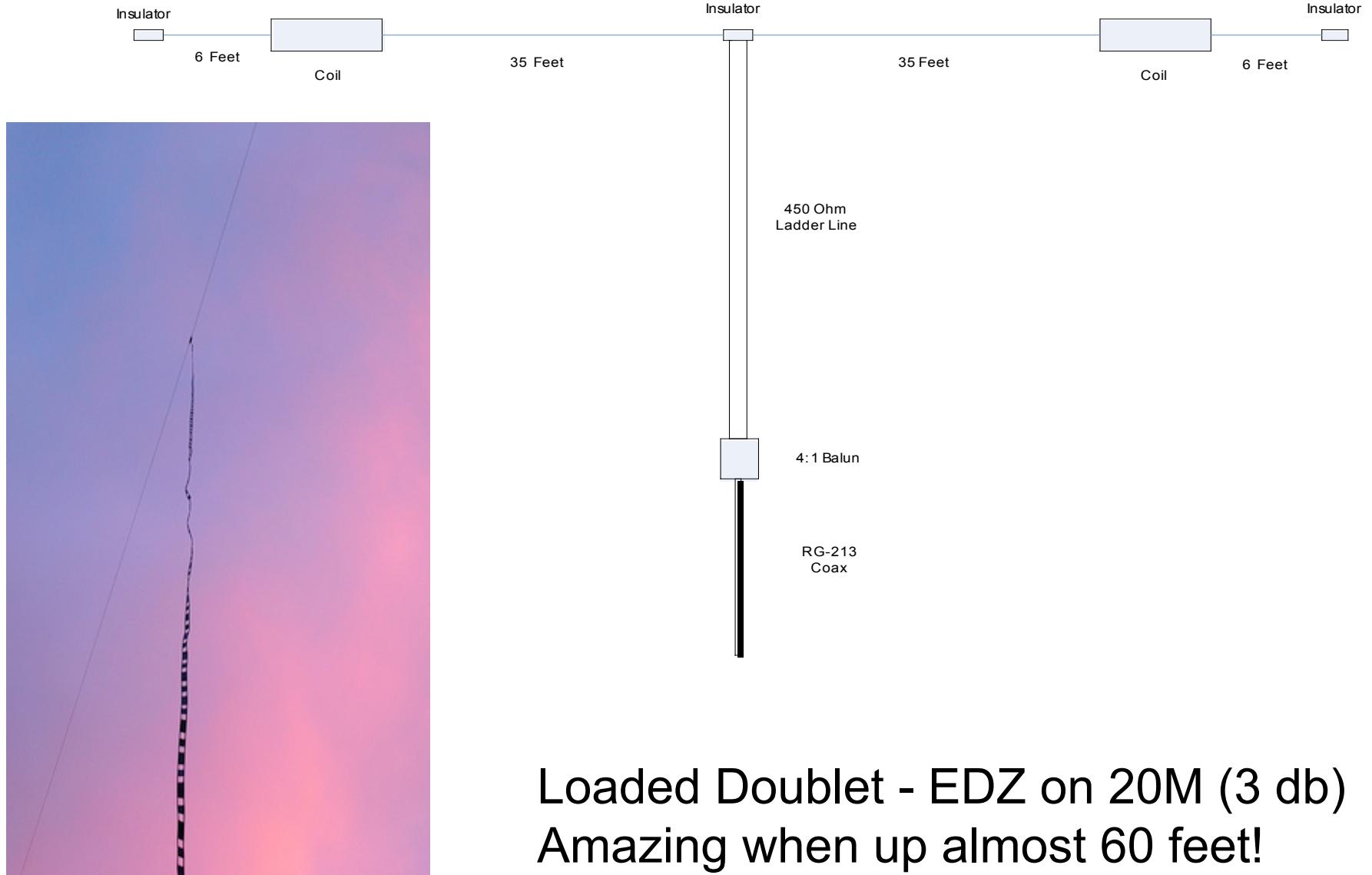


DXCC Honor Roll Antenna Strategies



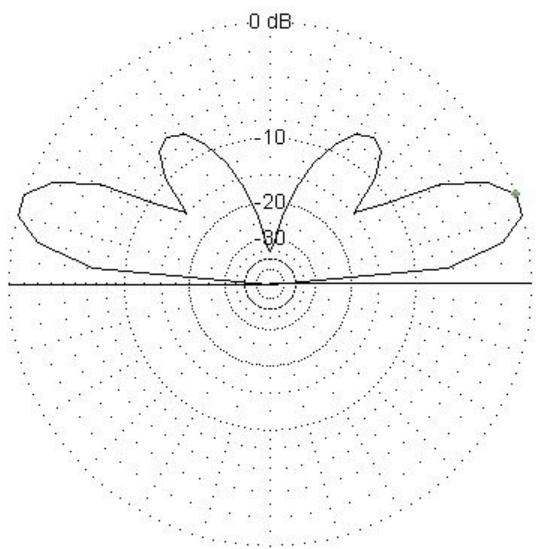
K1WA Array (20 M)

DXCC Honor Roll Antenna Strategies



DXCC Honor Roll Antenna Strategies

* Total Field



EZNEC+

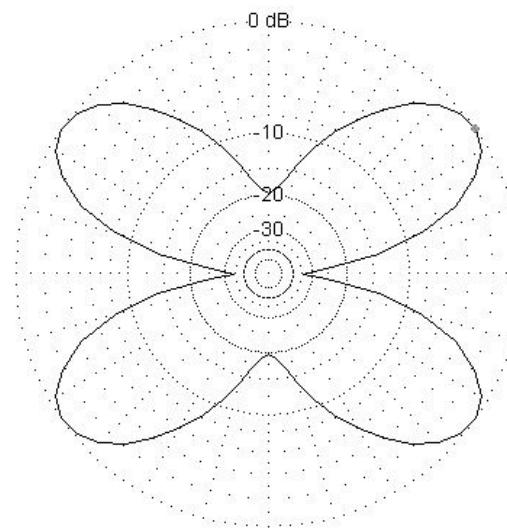
14 MHz

Elevation Plot
Azimuth Angle 35.0 deg.
Outer Ring 8.93 dBi

3D Max Gain 8.93 dBi
Slice Max Gain 8.93 dBi @ Elev Angle = 20.0 deg.
Beamwidth 18.5 deg.; -3dB @ 8.8, 27.3 deg.
Sidelobe Gain 8.93 dBi @ Elev Angle = 160.0 deg.
Front/Sidelobe 0.0 dB

Cursor Elev 20.0 deg.
Gain 8.93 dBi
0.0 dBmax
0.0 dBmax3D

Total Field



EZNEC+

14 MHz

Azimuth Plot
Elevation Angle 20.0 deg.
Outer Ring 8.93 dBi

3D Max Gain 8.93 dBi
Slice Max Gain 8.93 dBi @ Az Angle = 35.0 deg.
Front/Side 3.87 dB
Beamwidth 30.1 deg.; -3dB @ 22.3, 52.4 deg.
Sidelobe Gain 8.93 dBi @ Az Angle = 145.0 deg.
Front/Sidelobe 0.0 dB

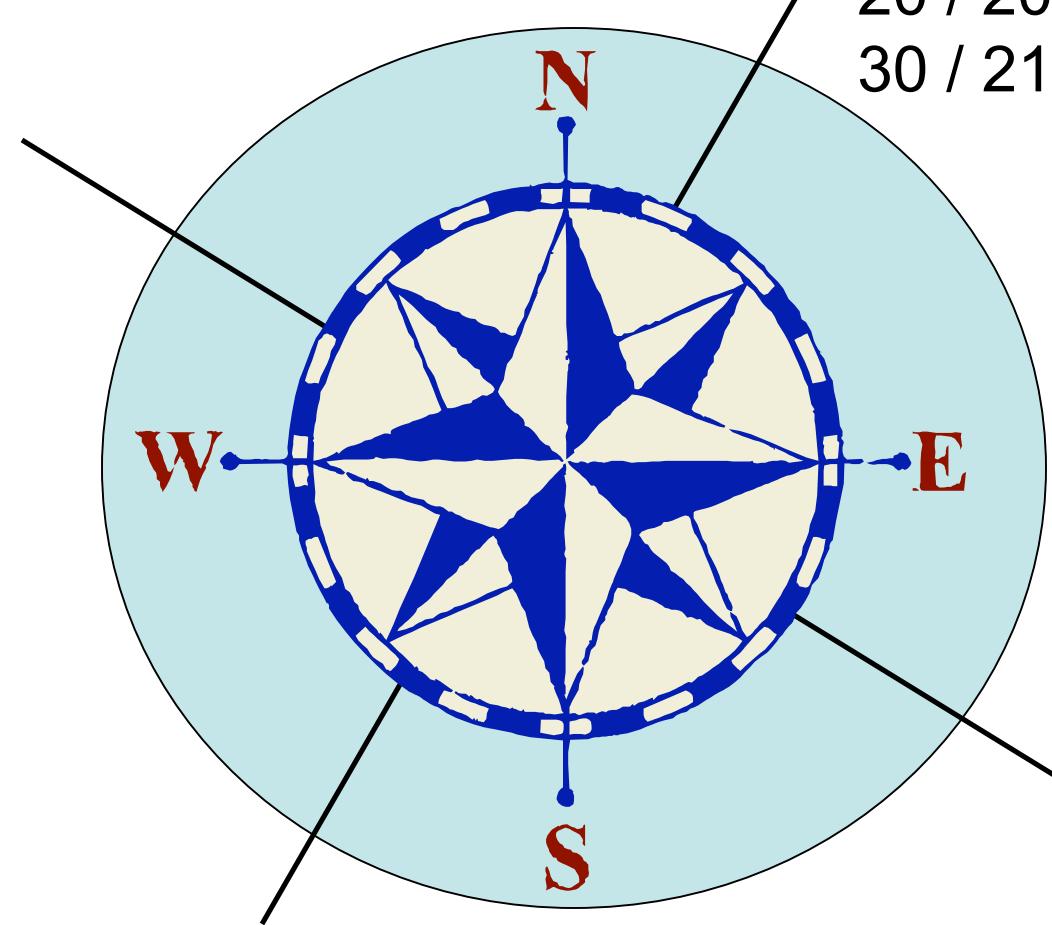
Cursor Az 35.0 deg.
Gain 8.93 dBi
0.0 dBmax
0.0 dBmax3D

Loaded Doublet

DXCC Honor Roll Antenna Strategies

Doublet
300 / 120
Degrees

3Y, FT5Z,
HK0M, KP1,
VP8S, ZS8



K1WA

20 / 200 deg - 40M
30 / 210 deg - 20M

7O, E3,
E4, EP,
FR/G, FR/T,
J2, KH5K,
SV/A, VK0/H,
VK9W, ZL9

DXCC Honor Roll Antenna Strategies

- At 321 - and at this point in the SS cycle, I have chosen two bi-directional, fixed position antennas with gain
- With the rapid slope up cycle 24, my 200 watts will (again) be more than enough
- I have always had a KISS approach – maybe better called a “scrapper” approach to DX-ing.