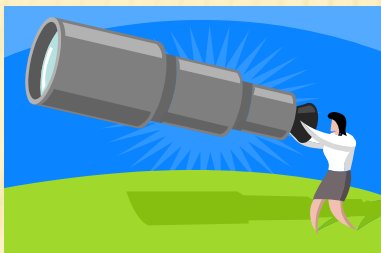


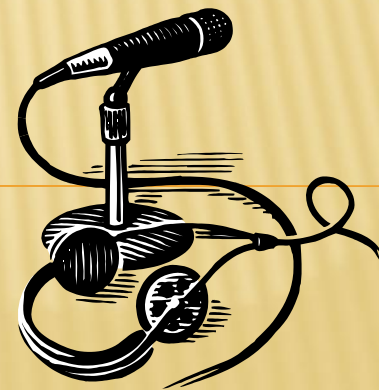
FREE Propagation and Prediction Tools to Help You Find DX



by

Dennis Gregory – WU6X

March 9, 2012



PREDICTIVE TOOLS

<http://www.voacap.com/prediction.html>

Map Sat Hyb

Date
Year: 2012 Month: March

Transmitter Site

QTH: W Sacramento CA
Name: Sacramento CA Loc calc
Latitude: 38.58 [-90..90]
Longitude: -121.48 [-180..180]
TX antenna: Dipole @ 10M (33ft)
TX power: 100 W
TX mode: SSB
Specials: Swap TX-RX Short-path
Current point: Set as default Reset default

Receiver Site

QTH: YU Serbia
Name: Serbia Loc calc
Latitude: 44.8 [-90..90]
Longitude: 20.45 [-180..180]
RX antenna: Dipole @ 10M (33ft)

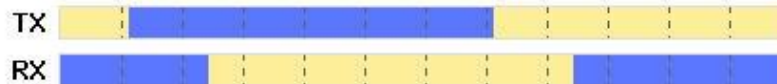
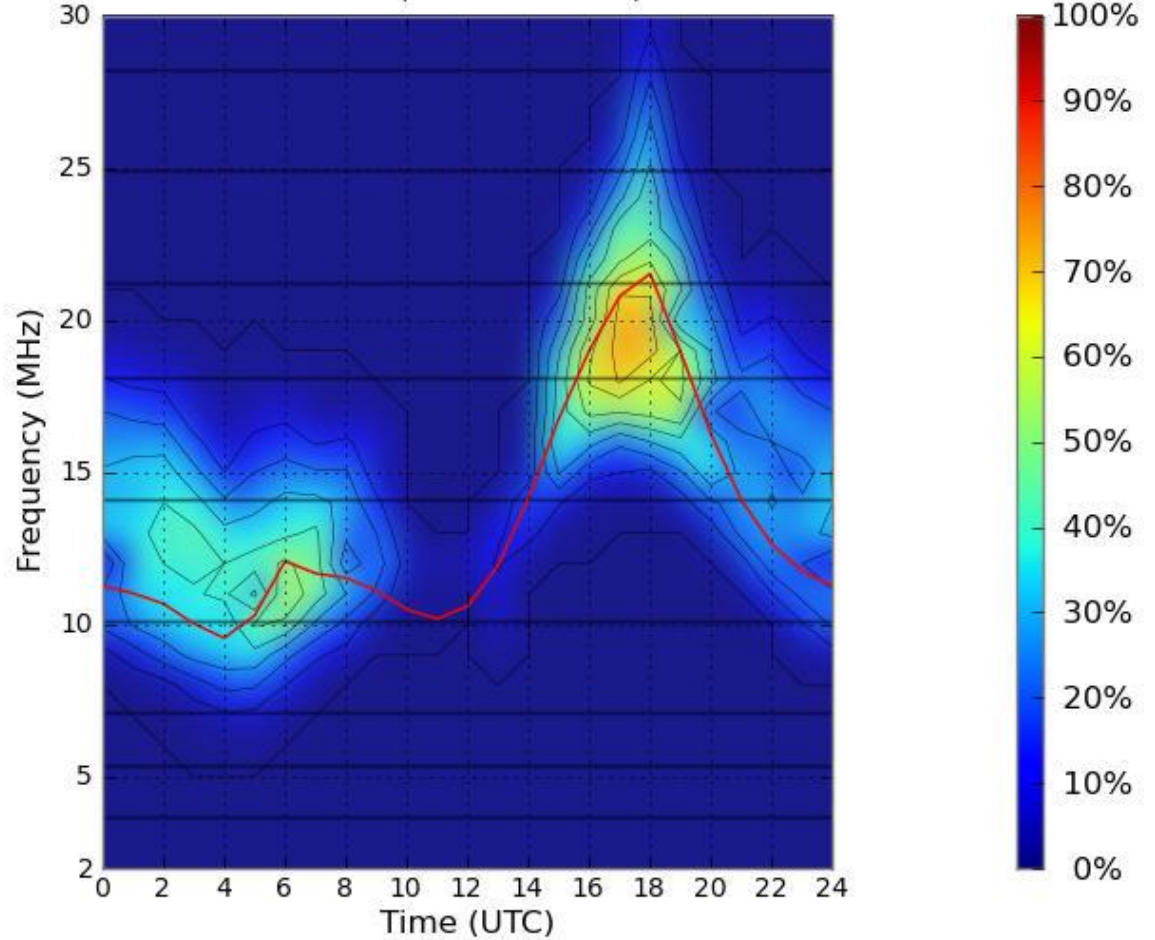
Run the prediction!

Map data ©2012 Tele Atlas - Terms of Use

RELIABILITY

Circuit Reliability (%)

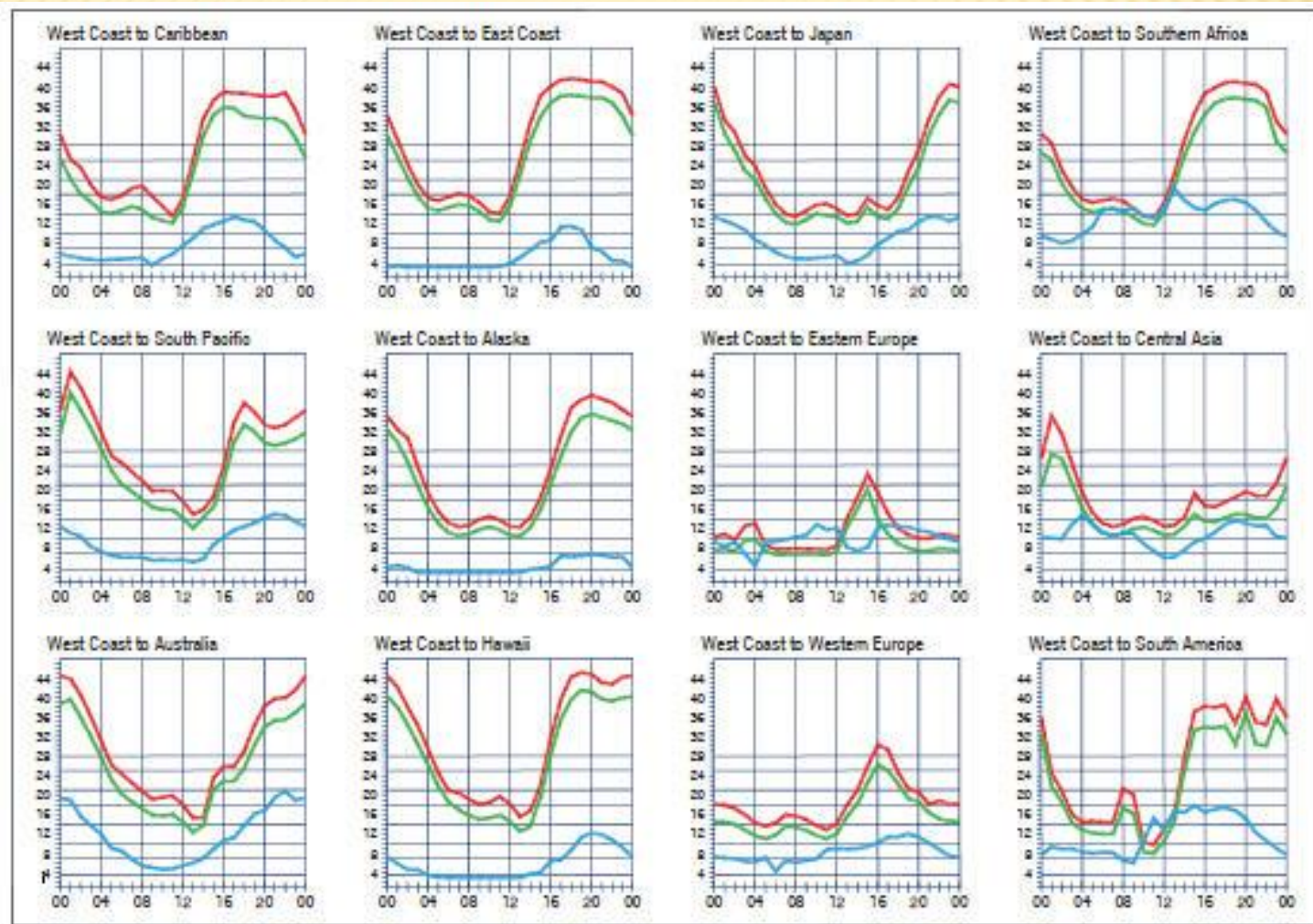
Mar 2012 SSN = 68. Minimum Angle= 0.100 degrees
Sacramento CA Montenegro AZIMUTHS N. MI. KM
38.58 N 121.48 W - 42.50 N 19.28 E 27.81 330.35 5489.5 10165.8
XMTR 2-30 2-D P-to-P[voaant/d10m.ant] Az= 0.0 OFFaz= 27.8 0.080kW
RCVR 2-30 2-D P-to-P[voaant/d10m.ant] Az= 0.0 OFFaz=330.4
3 MHz NOISE = -155.0 dBW REQ. REL = 90% REQ. SNR = 24.0 dB



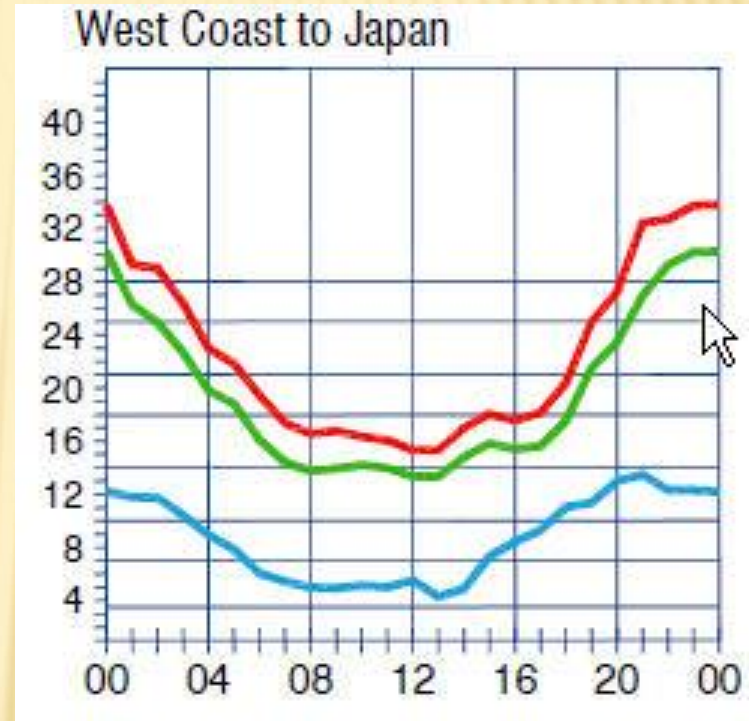
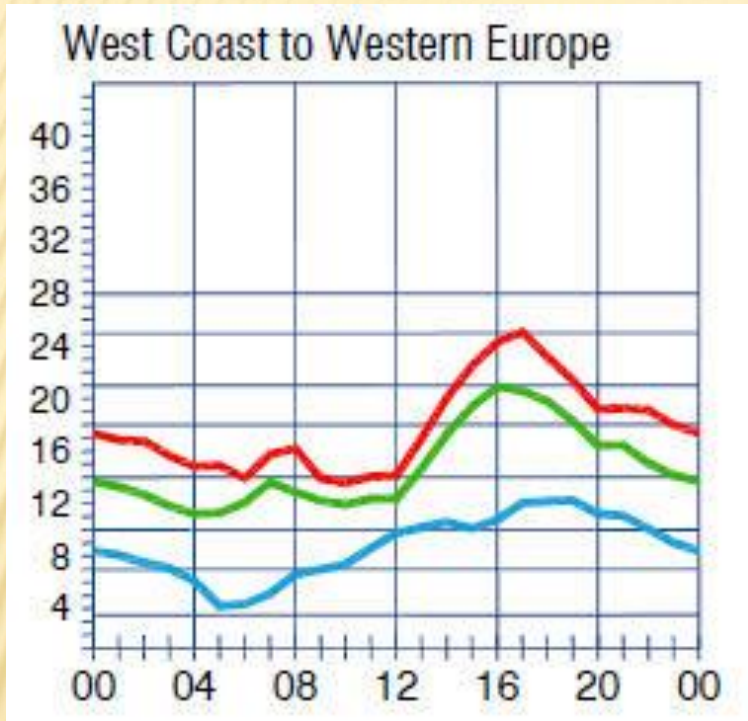
Sunrise/sunset bars

PROPAGATION CHARTS

<http://www.arrl.org/propagation>



PROPAGATION CHARTS (CONTINUED)



On 10% of the days of this period, the highest frequencies propagated will be at least as high as the upper red curves (HPF, highest possible frequency) and on 50% of the days they will be at least as high as the green curves (MUF, classical maximum usable frequency). The blue curves show the lowest usable frequency (LUF) for a 1500-W CW transmitter.

BEACON TRACKER (DYNAMIC)

<http://www.w6nek.com> – iPhone: BeaconAid-HF

W6NEK HF Beacon Tracker

File Display Beacon Status Internet Time Internet HAM Info Instructions About...

PC Time 04:10:31 PM

NCDXF Beacon Station 4S7B Sri Lanka - Colombo

Pass 1
Beacon 4 of 18

Latitude 06deg. 54min. North Longitude 79deg. 52min. East

20 Meter Band Selected - Tune Receiver To 14.100 MHz (CW Mode)

Select Frequency Band To Monitor

20 Meters 17 Meters 15 Meters 12 Meters 10 Meters

SPOTTING DX STATIONS (REAL TIME)

<http://www.dxsummit.fi/DxSpots.aspx>

DXSUMMIT BY RADIO X ARCALA

OH8X
WWW.RADIOARCALA.COM

NEWS DX SPOTS **BAND SPOTS** ANNOUNCEMENTS SEND SPOT SEARCH FORUM DONATE RADIO ARCALA

» [137kHz](#) » [1.8MHz](#) » [3.5MHz](#) » [5MHz](#) » [7MHz](#) » [10MHz](#) » [14MHz](#) » [18MHz](#) » [21MHz](#) » [24MHz](#) » [28MHz](#) » [50MHz](#) » [70MHz](#) » [144MHz](#) » [220MHz](#)
» [430MHz](#) » [1.2GHz](#) » [2.3GHz](#) » [3.4GHz](#) » [5.6GHz](#) » [10GHz](#) » [24GHz](#) » [47GHz](#) » [Beacon](#) » [Digital](#) » [IOTA](#) » [QRP](#) » [Satellite](#) » [Mobile](#)

» LAST DX SPOTS ON 14MHZ - RELOADED EVERY 3 MINUTES

UN7TK-@	14071.9	RA6UL	BPSK31 Vyacheslav Astrakhan	0357	29 Feb	European Russia
UA9UDX-@	14071.5	RM9WG	BPSK31 □□rDel L084	0352	29 Feb	Asiatic Russia
UA9UDX-@	14071.9	RA6UL	BPSK31 VYCHESLAV LN36	0346	29 Feb	European Russia
KM3N	14076.0	JA1NUX	JT65 Thank you Mitsuo!	0343	29 Feb	Japan
KM3N	14076.0	UA0FO	JT65 Hi Sergey!	0335	29 Feb	Asiatic Russia
UA9UDX-@	14071.9	PY2RDZ	BPSK31 DILSON	0332	29 Feb	Brazil
UA9AEI-@	14026.9	RA9YUI	CQ CQ	0328	29 Feb	Asiatic Russia
K6JEB	14076.0	N5LYJ	JT65 TX	0323	29 Feb	United States of
R7NK	14023.2	UN7BBD	599	0313	29 Feb	Kazakhstan
RA6CX-@	14202.0	UA9JAF	CQ CQ DX	0313	29 Feb	Asiatic Russia
UA0IT-@	14076.0	KD6QM	jt65a LoTW ok\$21 tnx	0253	29 Feb	United States
YV5JIP	14230.0	YV5JIP	cq sstv cq sstv sstv	0250	29 Feb	Venezuela
W2HTI	14032.1	UK8OAG	CQ USA	0247	29 Feb	Uzbekistan

WHERE TO AIM THE ANTENNA

Google: **Kawaz calculator**

City/Entity	Country/Entity	Latitude	Longitude
Arad	Romania	46.17	21.32
Bacau	Romania	46.55	26.97
Baia_Mare	Romania	47.65	23.6
Botosani	Romania	47.73	26.68
Braila	Romania	45.28	27.97
Brasov	Romania	45.65	25.58
Bucuresti	Romania	44.45	26.17
Buzau	Romania	45.15	26.82
Cluj-Napoca	Romania	46.78	23.62
Constanta	Romania	44.2	28.63
Craiova	Romania	44.3	23.78
Drobeta_Turnu-Severin	Romania	44.63	22.67
Focsani	Romania	45.7	27.18
Galati	Romania	45.45	28.03
Iasi	Romania	47.15	27.63

The screenshot shows the KawAZ software interface. It features a central compass rose with a red needle pointing towards the North-Northwest. The compass is labeled with N (North), S (South), E (East), and W (West). Below the compass, the text reads: "Azimuth Angle in degree 22.3298" and "True North 0 degree, CW". To the right of the compass is a "Console | Calculation" panel. This panel includes a "Callsign Prefix" dropdown menu set to "YO", a "Search" button, and a "Clear" button. Below this is a "Target Selection" section with radio buttons for "Callsign Prefix" (selected) and "Country / Entity". Further down is a "Country/Entity Name" dropdown menu with "Search" and "Clear" buttons. The "Time Zone" is set to "GMT+2H". The "Target" field shows "GMT Home" and the date/time "03/08/2012 06:42:58". At the bottom, the "Target Location Name" is "Romania Brasov", "Target Latitude in degree (North + / South -)" is "45.65", and "Target Longitude in degree (East + / West -)" is "25.58". There are "Calculate", "Memo", and "Clear" buttons at the bottom right.