

VOACAP

3 августа 2015 г.
12:20

Всем привет!

Теперь я хочу рассказать о том, как прогнозирую прохождение.

Есть на просторах интернета замечательный ресурс <http://www.voacap.com>
С его помощью можно делать большое количество всевозможных расчетов, но достаточно уделить внимание только нескольким.

1. Расчет зоны покрытия по одному диапазону
<http://www.voacap.com/coverage.html>

Интерфейс программы очень простой. Разобраться можно легко.

VOACAP Online Coverage Maps

Professional-grade high-frequency (3-30 MHz) coverage area predictions

Date
Year: 2015 SSN:
Month: August
Time UTC: 09 Remember these values

Transmitter Site
QTH: << Select a location >>
Name: TX
Latitude: 0.0000 [-90..90]
Longitude: 0.0000 [-180..180]
TX antenna: Dipole @ 10M (33ft)
TX power: 100 W
TX mode: CW
Band: 20M (14.1 MHz)
Great-circle path: Short-path
Current point:

Receiver Sites
RX antenna: Dipole @ 10M (33ft)

[VOACAP Онлайн: Карты покрытия](#)

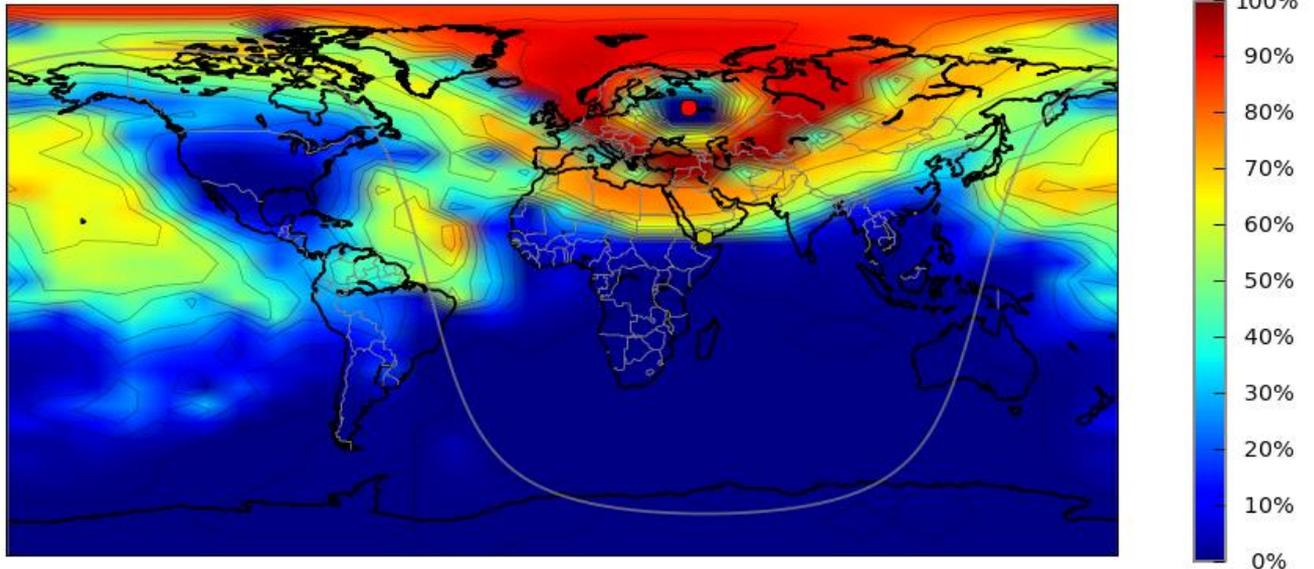
Результат расчета

VOACAP Online Coverage Maps

[Professional-grade high-frequency \(3-30 MHz\) coverage area predictions](#)

This graph shows the probability of achieving the chosen grade of service (TX mode).

LO06nn (56.56N, 41.13E), Aug, 09 UTC, 14.100 MHz, 80 W, SSN 51, Mode: CW
TX Ant: [voaant/d10m.ant], RX Ants: [voaant/d10m.ant]



2. Расчет на нескольких диапазонах <http://www.voacap.com/planner.html>

VOACAP Propagation Planner, v2.0b

A tool for professional HF contest & DX expedition planning

Date Year: 2015 Month: August		Ionospheric Parameters (OPTIONAL) Sporadic E: No SSN:	
TX Site Settings			
QTH:	UA Moscow		
Name:	Moscow	Loc calc	
Latitude:	55.77	[-90..90]	
Longitude:	37.62	[-180..180]	
Antennas:	10M: 5-el Yagi @ 40M (132ft)	12M: 5-el Yagi @ 40M (132ft)	15M: 5-el Yagi @ 40M (132ft)
	17M: 5-el Yagi @ 40M (132ft)	20M: 5-el Yagi @ 40M (132ft)	30M: 1/4 wl Vert Gd Gnd
	40M: 1/4 wl Vert Gd Gnd	80M: 1/4 wl Vert Gd Gnd	
Power:	1500 W		
Mode:	CW		
DX Site Settings			
Antennas:	10M: 5-el Yagi @ 40M (132ft)	12M: 5-el Yagi @ 40M (132ft)	15M: 5-el Yagi @ 40M (132ft)
	17M: 5-el Yagi @ 40M (132ft)	20M: 5-el Yagi @ 40M (132ft)	30M: 1/4 wl Vert Gd Gnd
	40M: 1/4 wl Vert Gd Gnd	80M: 1/4 wl Vert Gd Gnd	
DX sites:	<input checked="" type="radio"/> All 40 CQ Zones, Short Path <input type="radio"/> All 40 CQ Zones, Long Path <input type="radio"/> ITU Zones, Short Path <input type="radio"/> ITU Zones, Long Path		
Run the prediction!			

Результат расчета

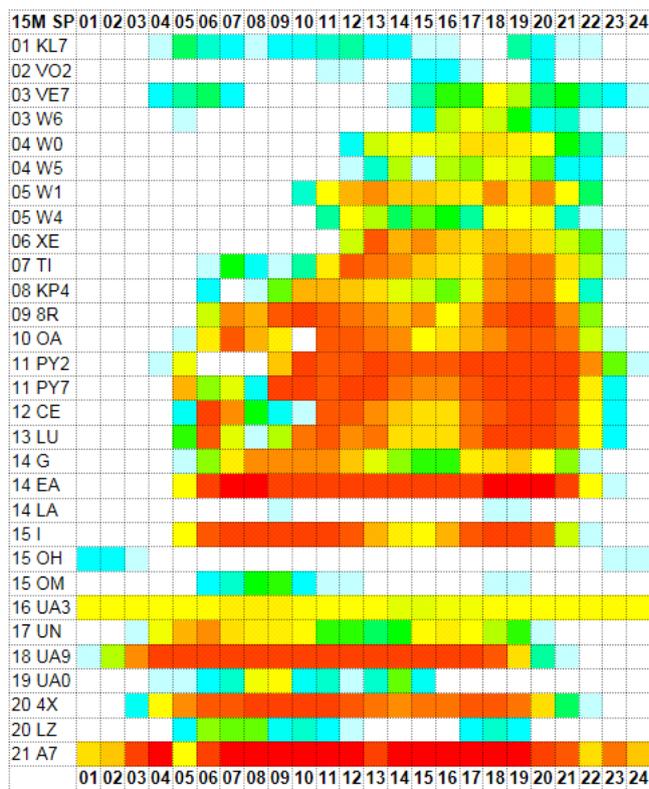
VOACAP Propagation Planner, v2.0b

A tool for professional HF contest & DX expedition planning

Your prediction is complete! Now you can:

1. View the **zone-specific propagation charts** from your TX to the world.
 - [Zones with WARC bands](#)
 - [Zones without WARC bands](#)
2. View the **band-specific propagation charts** from your TX to the world.
 - [80 meters](#)
 - [40 meters](#)
 - [30 meters](#)
 - [20 meters](#)
 - [17 meters](#)
 - [15 meters](#)
 - [12 meters](#)
 - [10 meters](#)

The Google Chrome browser is recommended for viewing the charts above. Other browsers cannot print their colors correctly.



3. Прогноз DX <http://www.voacap.com/dx.html>

VOACAP DX Charts

Make your HF propagation predictions for DXpeditions

Just enter your Maidenhead grid locator below, and short-path and long-path HF propagation pr

Your grid locator:

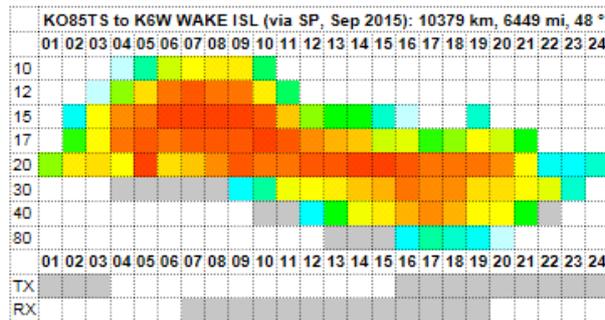
DX Sites

- K6W, Wake Isl (Sep 2015)
- D67GIA, Comoros (Sep 2015)
- E51MQT & E51MKW, Northern Cook Isl (Oct 2015)
- TX3X, Chesterfield Isl (Oct 2015)
- 3B9HA, Rodrigues Isl (Nov 2015)
- 3C7GIA, Equatorial Guinea (Nov 2015)
- VK9WA, Willis Isl (Nov 2015)
- 3Y0F, Bouvet (Dec 2015/Jan 2016)
- KH5, Palmyra (Jan 2016)
- VP8SGI, South Georgia (Jan 2016)
- VP8STI, South Sandwich (Jan 2016)
- FT/J, Juan de Nova (Mar 2016)
- VK9CK, Cocos (Keeling) Isl (Mar 2016)
- VK0EK, Heard Isl (Mar/Apr 2016)

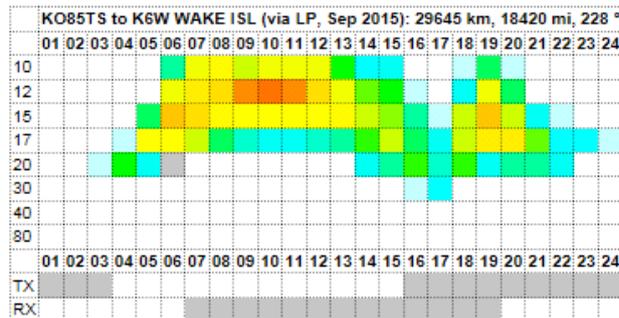
© 2010-15 Jari Perkiömäki (OH6BG), James Watson (HZ1JW) and Juho Juopperi (OH8GLV).

Результат расчета

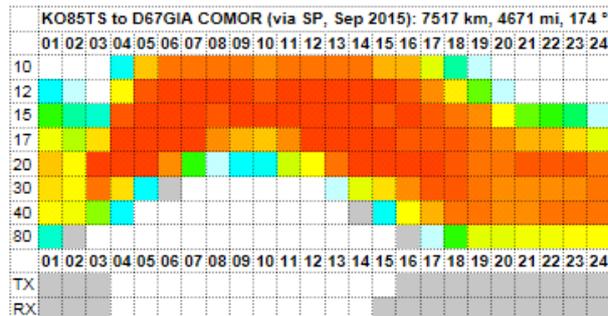
K6W WAKE ISL



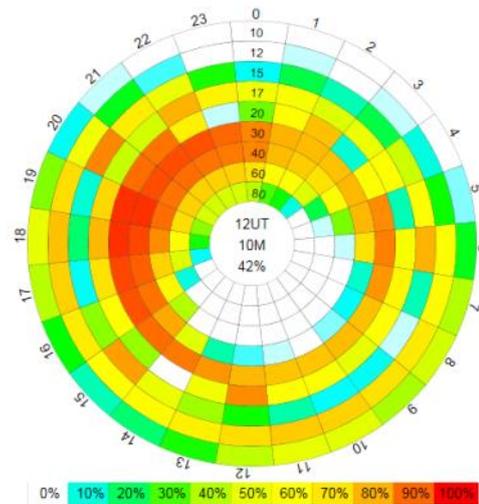
K6W WAKE ISL



D67GIA COMOROS



4. Расчет трассы между двумя точками <http://www.voacap.com/prediction.html>



TX to RX: 3797 km, 2359 mi, 222 ° Year: 2015 Month: August This

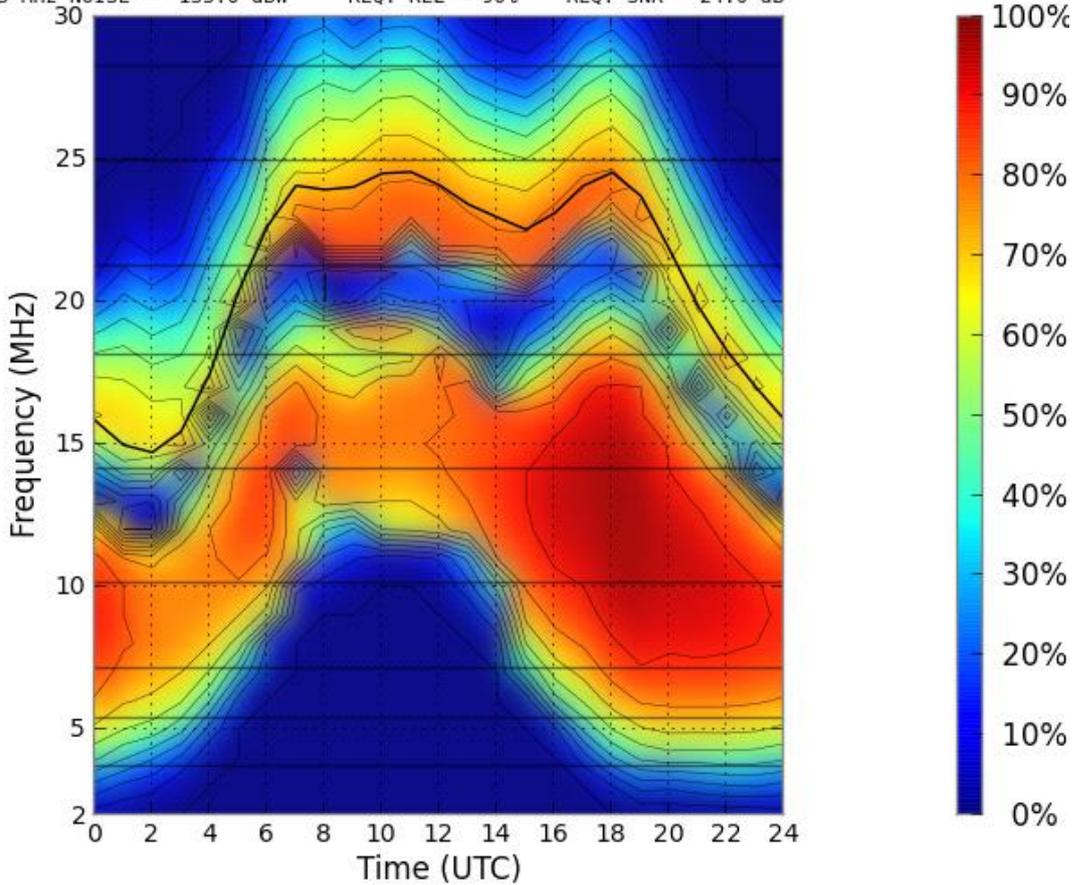
Propagation Params
 Es: No Model: Auto
 SSN: Min.TOA: 0.1 °

Transmitter Site
 QTH: << Select a location >>
 Name: K094ss Loc.calc

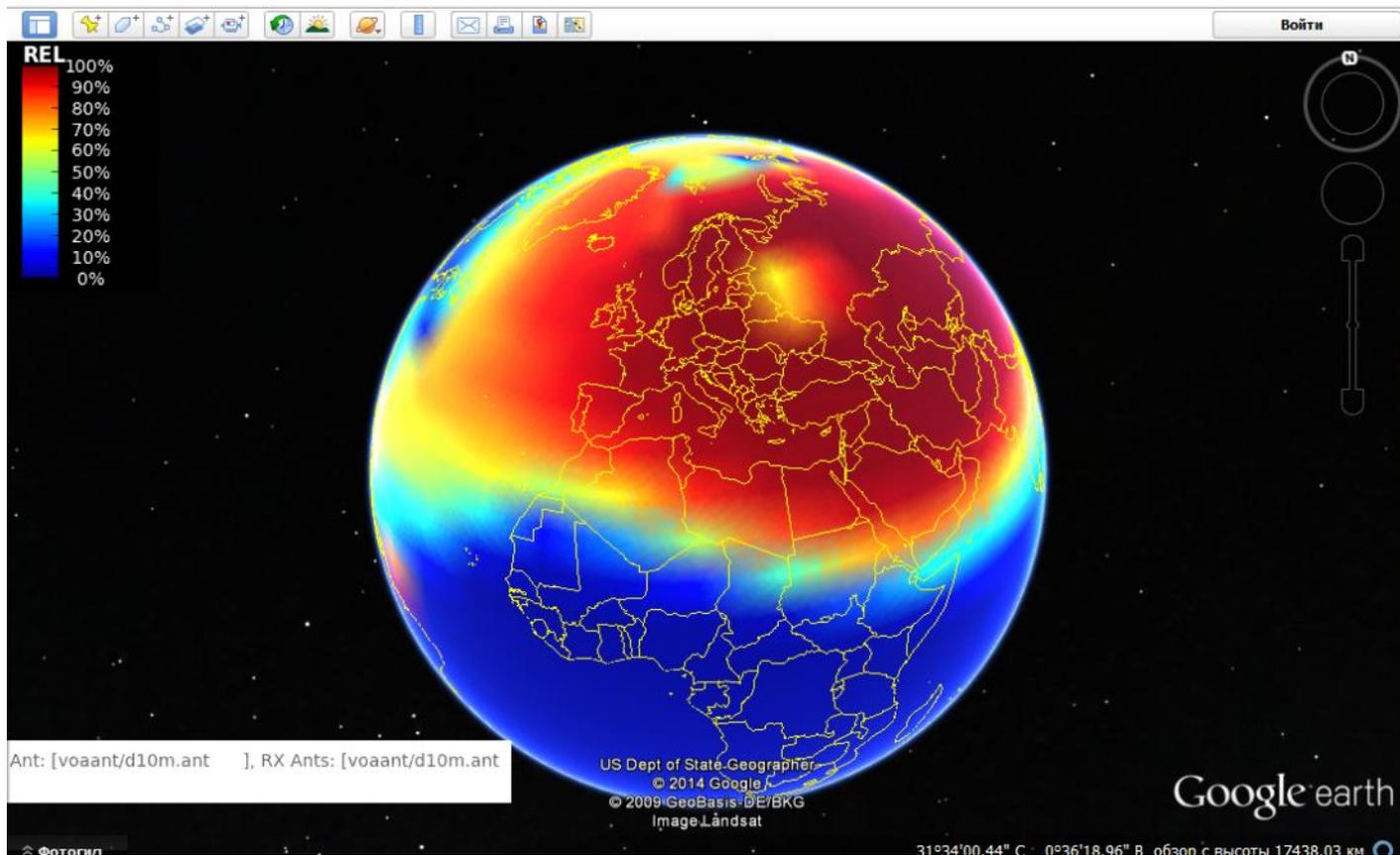
Receiver Site
 QTH: << Select a location >>
 Name: JL75hw Loc.calc

Circuit Reliability (%)

Aug 2015 SSN = 51. Minimum Angle= 0.100 degrees
 K094ss JL75hw AZIMUTHS N. MI. KM
 54.78 N 39.55 E - 25.96 N 14.66 E 222.44 25.65 2047.7 3792.1
 XMTR 2-30 2-D P-to-P[voaant/d10m.ant] Az= 0.0 OFFaz=222.4 0.080kW
 RCVR 2-30 2-D P-to-P[voaant/d10m.ant] Az= 0.0 OFFaz= 25.6
 3 MHz NOISE = -155.0 dBW REQ. REL = 90% REQ. SNR = 24.0 dB



Зону покрытия можно увидеть на карте и на 3D модели Google Earth!



Спасибо за внимание.