

# VOACAP

3 августа 2015 г.  
12:20

Всем привет!

Теперь я хочу рассказать о том, как прогнозировать 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 Loc calc  
Latitude: 0.0000 [-90..90]  
Longitude: 0.0000 [-180..180]  
TX antenna: Dipole @ 10M (33ft)  
TX power: 100 W  
TX mode: CW No Es  
Band: 20M (14.1 MHz)  
Great-circle path: Short-path  
Current point: Set as default Reset

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

Run the prediction!

[VOACAP Онлайн: Карты покрытия](#)

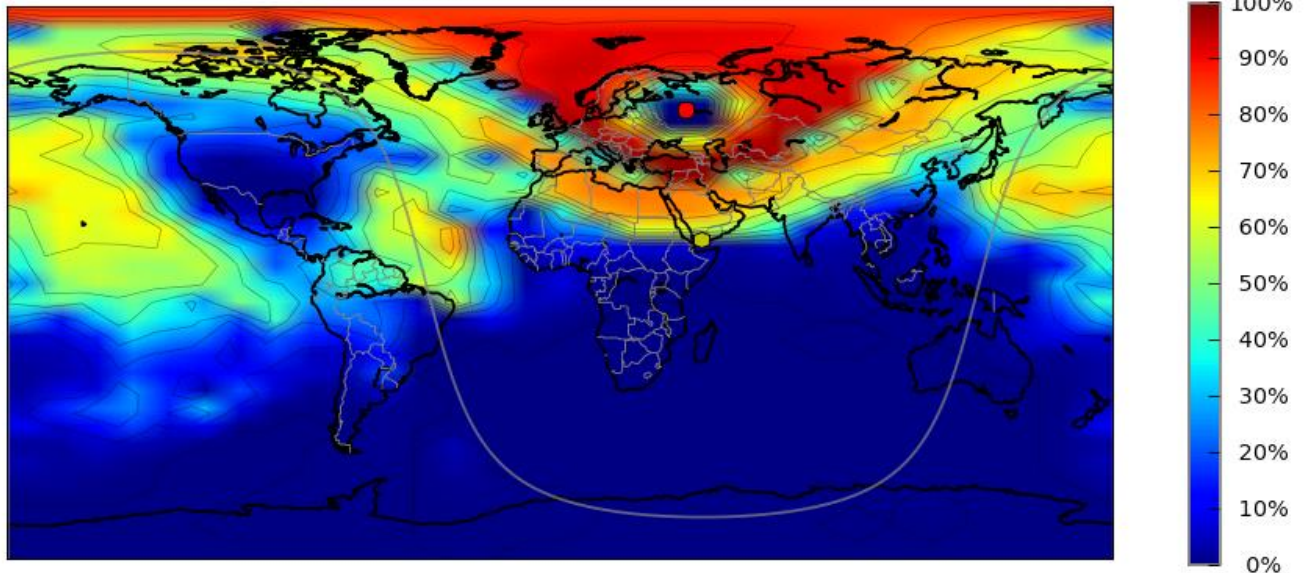
Результат расчета

# 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:	
<b>TX Site Settings</b>			
QTH: UA Moscow			
Name: Moscow Loc calc			
Latitude: 55.77 [-90..90]			
Longitude: 37.62 [-180..180]			
Antennas:			
10M:	5-el Yagi @ 40M (132ft)	10M:	5-el Yagi @ 40M (132ft)
12M:	5-el Yagi @ 40M (132ft)	12M:	5-el Yagi @ 40M (132ft)
15M:	5-el Yagi @ 40M (132ft)	15M:	5-el Yagi @ 40M (132ft)
17M:	5-el Yagi @ 40M (132ft)	17M:	5-el Yagi @ 40M (132ft)
20M:	5-el Yagi @ 40M (132ft)	20M:	5-el Yagi @ 40M (132ft)
30M:	1/4 wl Vert Gd Gnd	30M:	1/4 wl Vert Gd Gnd
40M:	1/4 wl Vert Gd Gnd	40M:	1/4 wl Vert Gd Gnd
80M:	1/4 wl Vert Gd Gnd	80M:	1/4 wl Vert Gd Gnd
Power: 1500 W			
Mode: CW			
<b>DX Site Settings</b>			
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

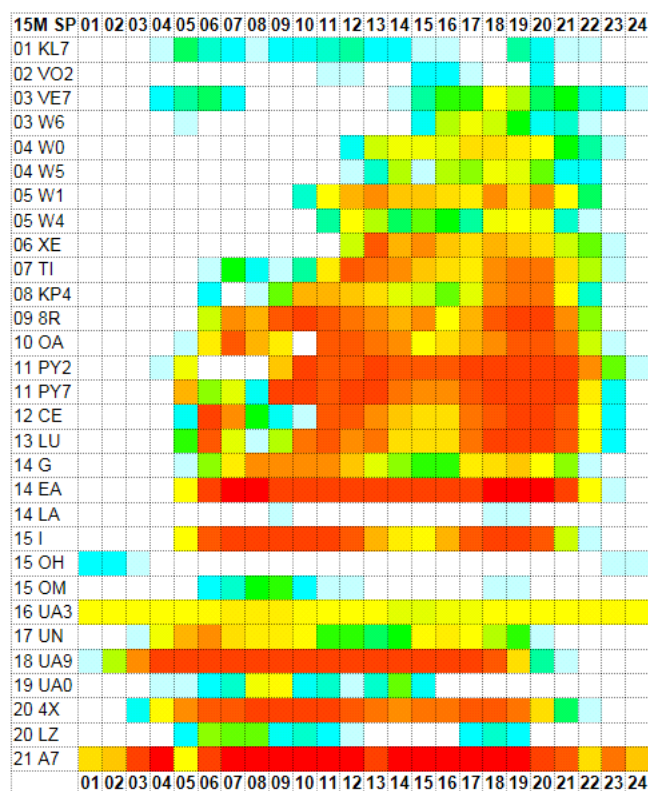
# VOACAP Propagation Planner, v2.0b

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:

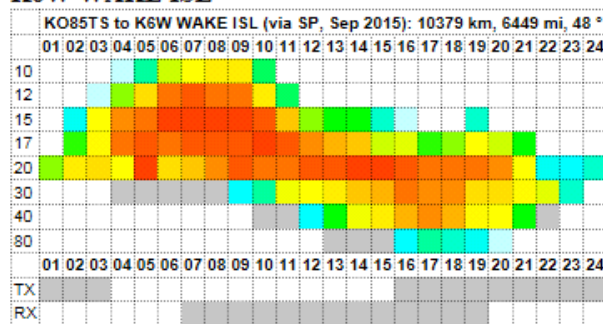
## DX Sites

- 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)

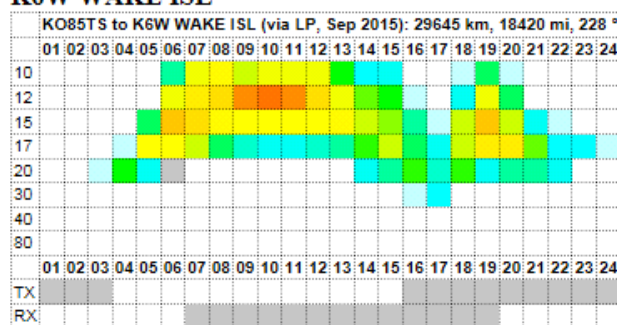
© 2010-15 Jari Perkiömäki (OH6BG), James Watson (HZ1JW) and Juho Juopperi (OH8GLV).

Результат расчета

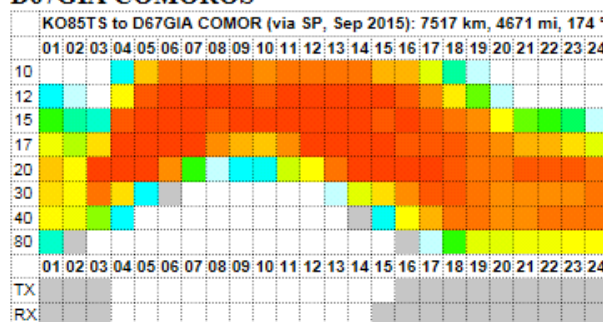
### K6W WAKE ISL



### K6W WAKE ISL

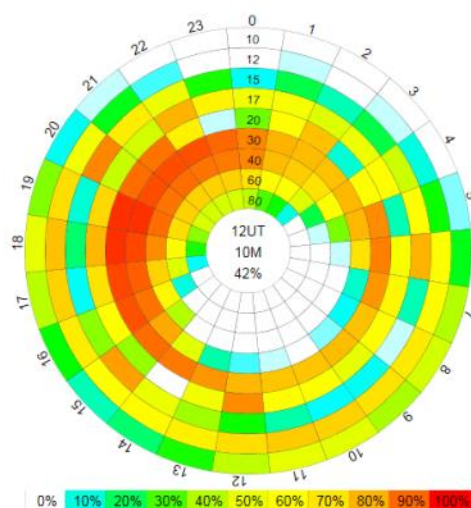


### D67GIA COMOROS





#### 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

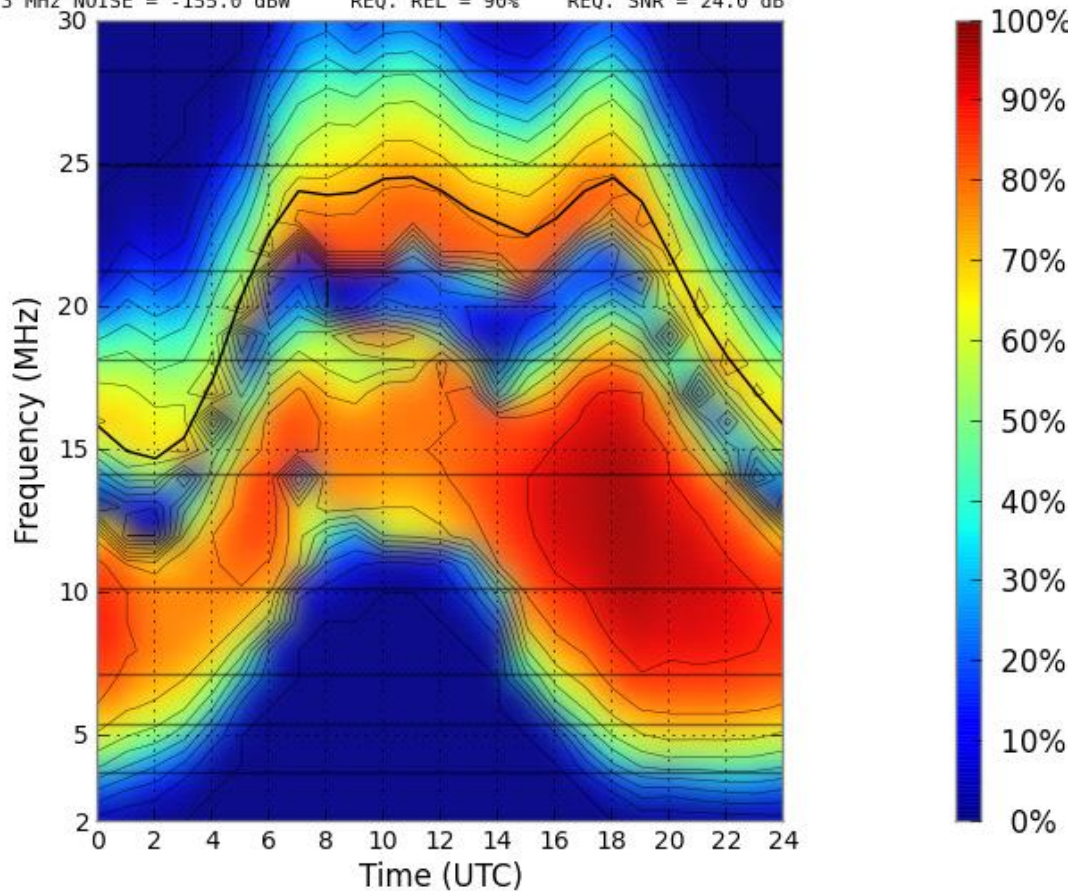
Propagation Params  
Es: No Model: Auto  
SSN: Min.TOA: 0.1°

Transmitter Site  
QTH: << Select a location >>  
Name: KO94ss Loc calc

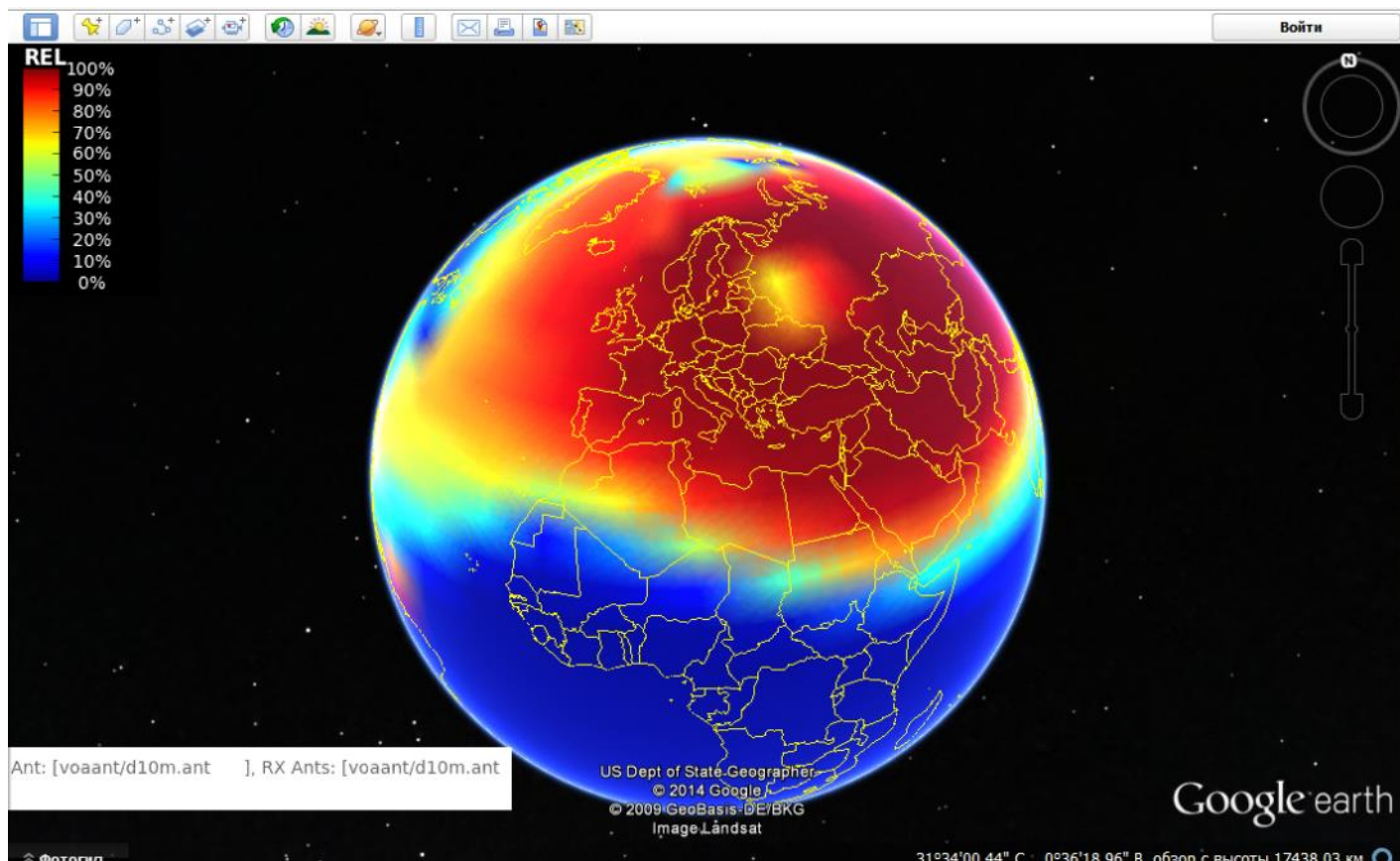
Receiver Site  
QTH: << Select a location >>  
Name: JL75hw Loc calc

### Circuit Reliability (%)

Aug 2015 SSN = 51. Minimum Angle= 0.100 degrees  
K094ss JL75hw  
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.