Reference Manual

Generated by Doxygen 1.7.5.1

Mon Jul 23 2012 19:36:30

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2.1 plot::voaarea Class Reference

Public Member Functions

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Public Attributes

- **power_watt**
- **utc**
- **tx_lon**
- **XNOISE**
- **filepath**
- **rx_ant_data_file**
- **filename**
- **title**
- **voafilename**

- **vgfilename**
- **snrimgname**
- **snr**
- **rel**

Static Public Attributes

- float **ssn** = 72.8

2.1.1 Detailed Description

```
This is the voaarea class
It conducts the actual simulations
```

2.1.2 Constructor & Destructor Documentation

2.1.2.1 def plot::voaarea::__init__ (*self, frequency, power, month, hour, tx_label* = "DG6FL", *tx_lat* = 50.0078, *tx_lon* = 8.30822, *filepath* = "/Users/g/itshfbc/areadata/", *RSN* = 27, *XNOISE* = 145, *tx_ant_data_file* = "samples/sample.00", *rx_ant_data_file* = "samples/sample.00")

```
This is the constructor, which
Input Parameters:
- RSN: Required SNR for circuit reliability calculation
(good broadcast station 67, cw 24 or 27, ssb 45, cw as on voacaponline 16)
- XNOISE: man made noise
145 in residental, quiet environment: 155
- tx_ant_data_file and rx_ant_data_file:
Standard: isotrope antenna
What does this contructor?
- sets standard values
- simulates if outputfiles (cf. pattern) do not exist
- plots the data if outputfiles (cf. pattern) do not exist
```

2.1.3 Member Function Documentation

2.1.3.1 def plot::voaarea::get_filename_snr (*self*)

```
Return the filename of the created SNR image
```

2.1.3.2 def plot::voaarea::make_voacap_file (*self*)

```
Create a voacap area simulation file
```

2.1.3.3 def plot::voaarea::read_voacap_result (*self*)

```
Read the results generated by voacap.
```

The documentation for this class was generated from the following file:

- plot.py