

LOG-YAGI.EXE version 1.6
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Holger Granholm, OH0NC
Norragatan 7 A 3
SF-22100 Mariehamn
(Finland)

Phone: (358)-28-13068
BBS: (358)-28-13068,,63

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Changes:

v1.0

The program was first created in 1985 on a CP/M computer.

v1.2

1986 it was updated with material from QST 12/1986.

v1.4

1988 it was ported to an IBM compatible computer.

v1.6

The program is ripe, and has not needed any upgrades as far as the original concept is concerned, (the author hates to re-invent the wheel). The only changes that have been made are concerned with the User Interface. The latest change to the interface only makes it look nicer.

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Overview:

The "Swan Yagi" was invented by Oliver Swan, W6KZK and described by Ed Tilton, W1HDQ in QST 10/69. The use of several driven elements is an efficient way of getting optimum phasing of currents in the antenna for high gain and clean pattern. The broader bandwidth as compared to a conventional yagi is an additional plus.

The result of the experiments and measurements done by me, show that the Swan antenna does outperform conventional Yagi's with the same boomlength.

My measurements show uniform gain from 144 to 145 MHz and a much cleaner pattern than could be obtained with a conventional Yagi

with the same boomlength. The gain was down 1.5 dB at 146 MHz, but the radiation pattern and the SWR were still very good.

The referred to articles are recommended for more details.