

To IK1MNJ Via JA1OYY om

My light weight 2 and 3 elements beam for 30m band.

①: Make a 2element beam antenna first.

I made 2elements beam soon when 30m Band was permitted with JA.
I devised the design of this antenna to become right and compact very much.
This antenna became that younger person, and became 3elements beam, and completed DXCC.

Beam pattern is 3el which did grade up.

Wind insulation tape to fit the outside diameter of AL-pipe to the diameter in FRPpipe.

Step1

Step2

The connection bar of the combination which should stop coming out

Stub: $8\phi \times 80 \times 1000L$

Short bar

To Balun

FRP

33cm

FRP Insulation board

Boom clamp

3.9m (0.13λ)

Two-fold AL-pipe .
Inside pipe : $28.5\phi \times 1.82m$
Outside pipe : $32\phi \times 0.36m$

Reflector 9.6MHz

Radiator 10.12MHz

Apply RF insulation varnish after you finish winding it.

capacity-hat

To Short

Glass fiber rod
Carbon rod is poor!
Each 6.3m

Soldering

Copper foil tape ⇒ thickness is about 0.2mm. The length = 8.2m (100 turn) of one side . Pitch \approx 55mm (Pitch of the tip part becomes narrow.) .

Prevent aclearance

Prevent aclearance

Insulation saddle

AL square pipe

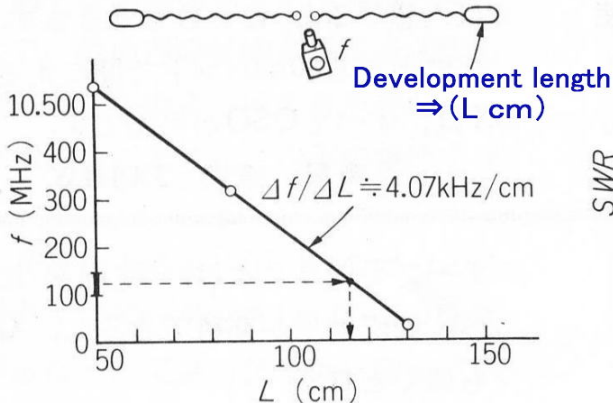
The adjustment of the resonance frequency makes a diameter change.

Assembling of the capacity-hat .

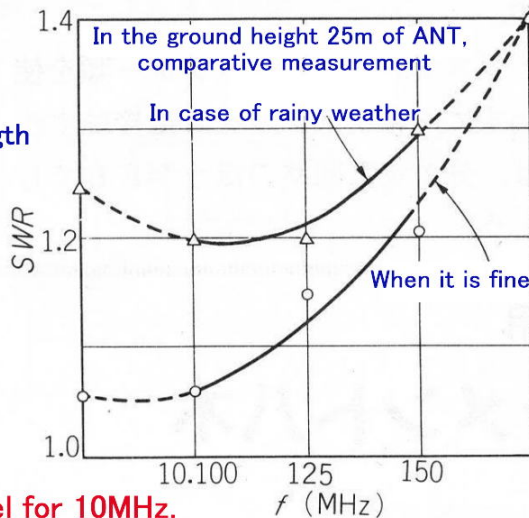
Assembling of the radiator .

As for the unit except for the designation (mm)

The development length of Capacity hat and the relations of the resonance frequency .



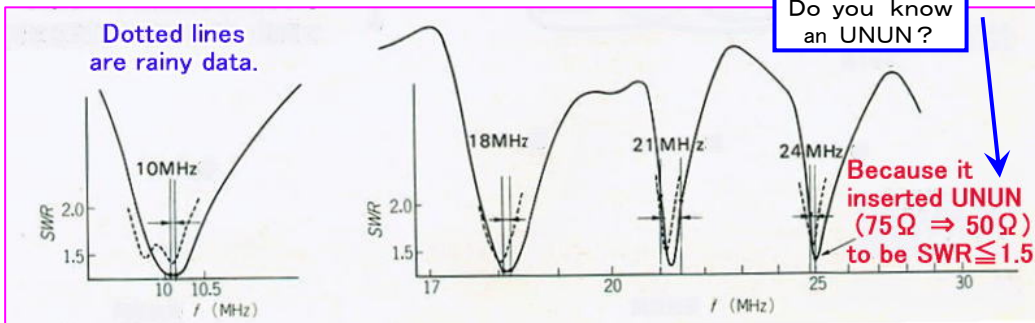
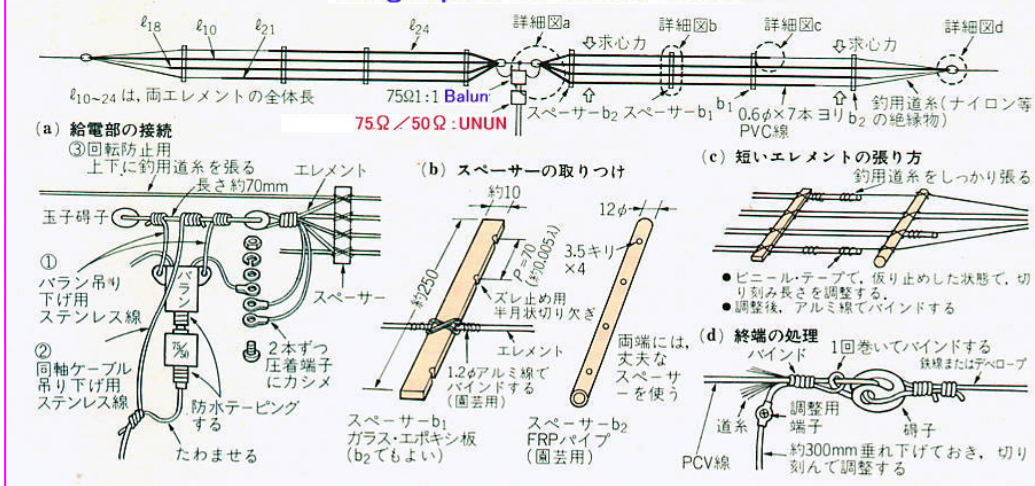
A drift in SWR due to the weather .



JA6HW preparation, the character of 2el for 10MHz.

②: The Wing Dipole for WARC+21MHz .

WingDi pole for WARC+21MHz .



It lasts!