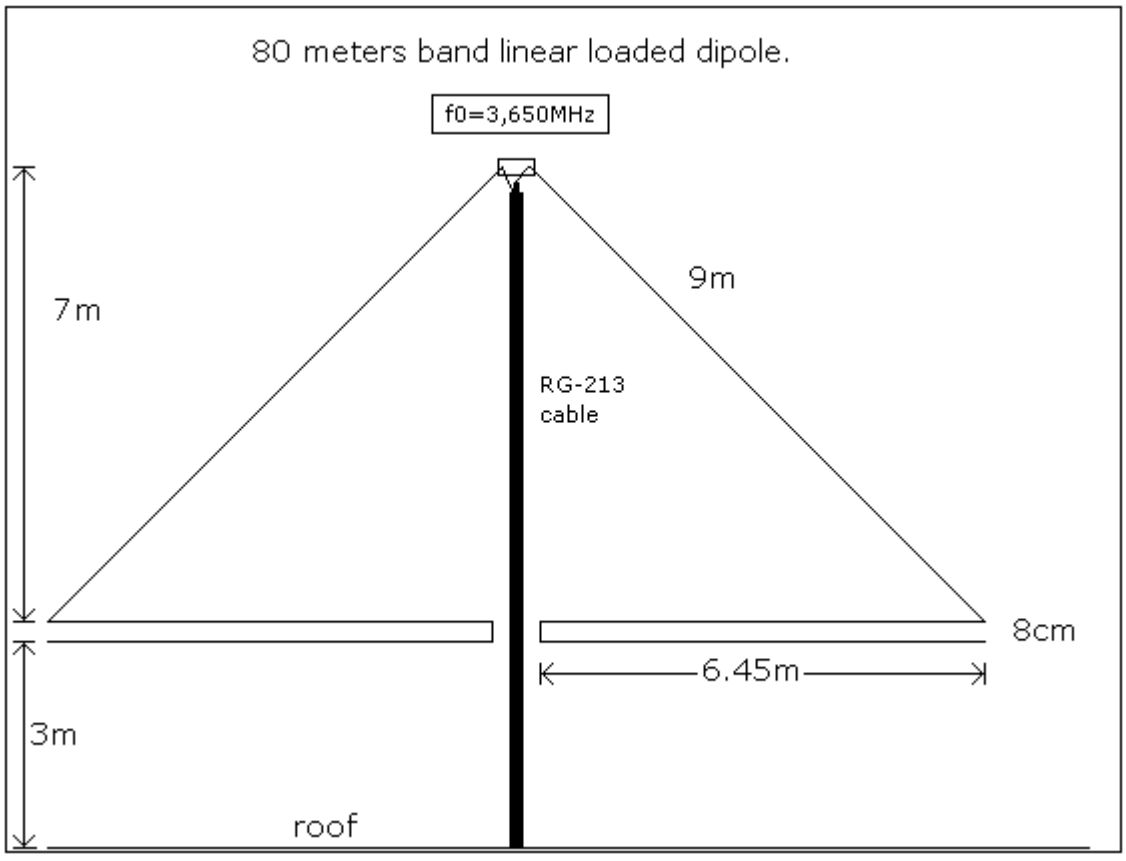
By George Orfanos, SV1CDY

80 meters band linear loaded dipole.

An easy way to 'fly' on eighty meters band. Ideal for limited space.

How start:
When I was amateur radio I looking for a high efficiency antenna which need limited space on eighty meters band. This happen because my neighbourhoods don't leave me to prop a simple wire. Well I find a way to solve my problem. Searching on antenna book find a half slope for one hundred and sixty meters band. Great idea I think! If I split the dimensions to two I will have an antenna on double frequency. So I try it with a big success.

Construction:
To build this antenna I use a 10 meters pole, 44 meters wire, a small pieces of insulators and rope. Two pieces poles 3 meters to prop the ends. (On my antenna the ends supported on balcony).
The construction it's the same like any other dipole antenna except the loads at the ends.
The loads it's a simple wire which make inversion and come back to pole, us you can see on the scheme. They need good support. Nothing else.



Results:
Let' s get started from the... SWR! OK. The SWR is 1,8÷1 on tuned frequency (3,650MHz). That means impedance is not so close to 50 Ω but who cares! I reduce that when I use a simple antenna tuner.
Now it' s time to test it. I have not use any other full size dipole to test this antenna but I can say in a few words, my transceiver 'fill' with strong signals! For example 9+40 from my country! 9+30 from other European countries! etc. Yes indeed. This is not something special or something 'super dooper' but really works good and cover distance more than 3.000 km.
I hope enjoy it.

Good luck de SV1CDY George J. Orfanos, Athens - Greece