Distance horizon-scanner*

Formula: $d_{nm} = 2.21\sqrt{h_m}$

Distance to Radar Horizon					
h_m	d_{nm}	h_m	d_{nm}	h_m	d_{nm}
2	3,1	15	8,6	40	14,0
4	4,4	20	9,9	45	14,8
6	5,4	25	11,1	50	15,6
8	6,3	30	12,1	55	16,4
10	7,0	35	13,1	60	17,1

*) Based on: standard atmosphere 1013.2 mb above sea level, temperature + 15ºC.

First possible detecting of an elevated radar target

Formula: $d_{nm} = 2.21 \times (\sqrt{h_m} + \sqrt{h_t})$

d_{nm} = distance between own scanner – radar-target in nautical miles

h_m = distance between own scanner and sea level in meter

h_t = height of radar target above sea level