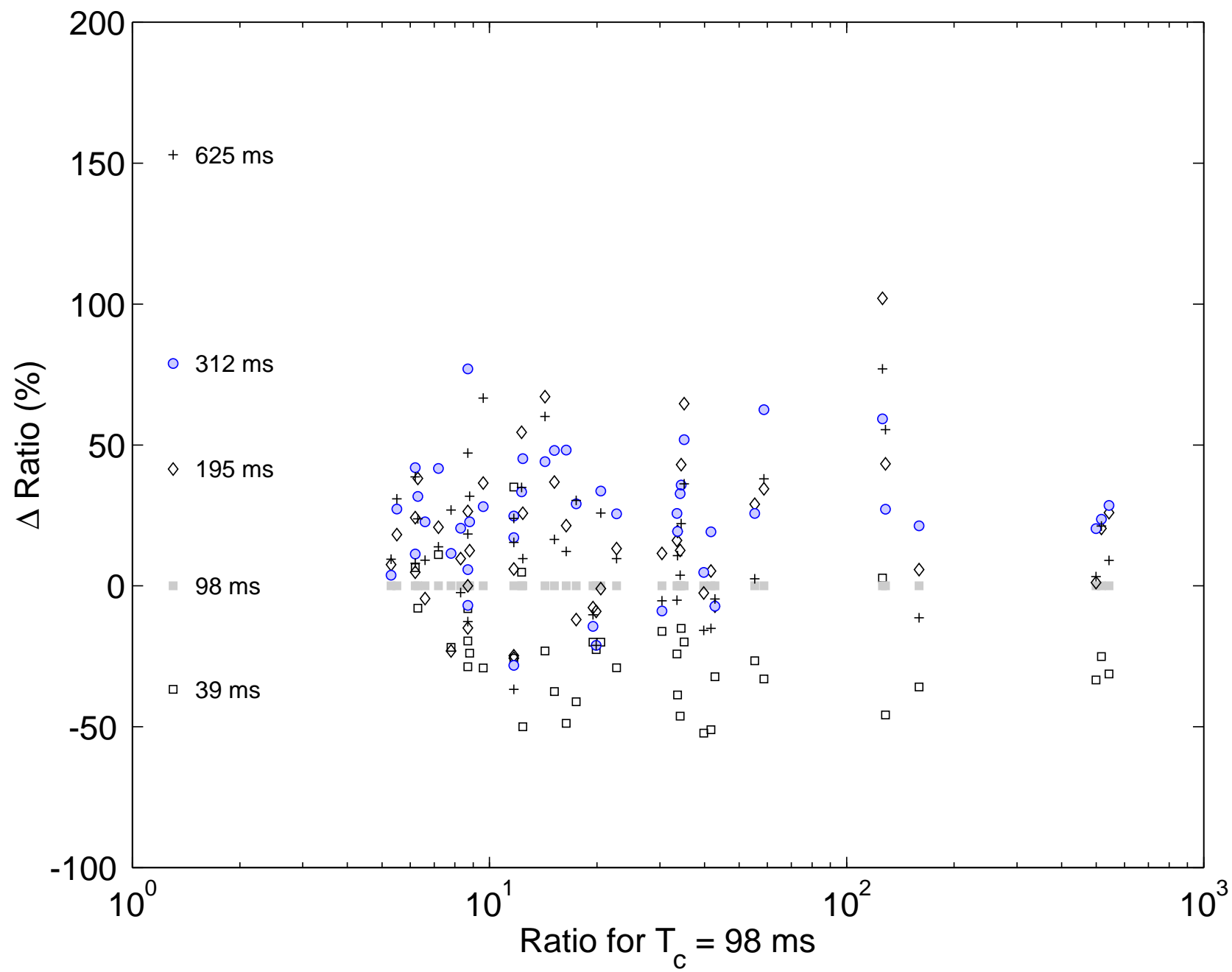


Sensitivity comparison

Radar properties	VHF	ESR	UHF	FGAN	U5G	LUO
Frequency [MHz]	224	500	933	1330	5000	5625
Wavelength [m]	1.338	0.600	0.321	0.225	0.060	0.053
Transmission [MW]	3.0	1.0	1.5	1.6	0.003	0.3
Antenna gain [dB]	43.1	45.3	48.1	49.7	62.5	47.5
Max duty cycle [%]	12.5	25.0	12.5	3.7	25.0	0.12
Noise temperature [K]	100	60	80	209	60	300
Energy-to-noise ratio for 3 cm target						
Cross section σ_* [mm ²]	0.16	3.9	47	190	710	710
Received power [aW]	0.18	0.81	15.3	69.3	12.1	0.96
$\sqrt{\text{SNR}_N}$	1.3	4.9	13.2	9.4	19.1	0.2
Ref. diameter [cm]	2.5	1.6	1.1	1.3	0.5	12.7



Dependence of \mathcal{R}_{\max}
on integration time

