NANOGrav 15-year data and SFM  $\frac{\tau_m}{\tau_r} = 1e22$ ,  $M_GW$  is from 1e-6 to 1.5 -4.5 BBN Bound -5.0  $\log_{10}(h_0^2\Omega_{GW})$ -5.5 -6.0-6.5 **-**2 0 2 -6 -10 -8 -4

 $\log_{10}(f \text{ Hz})$