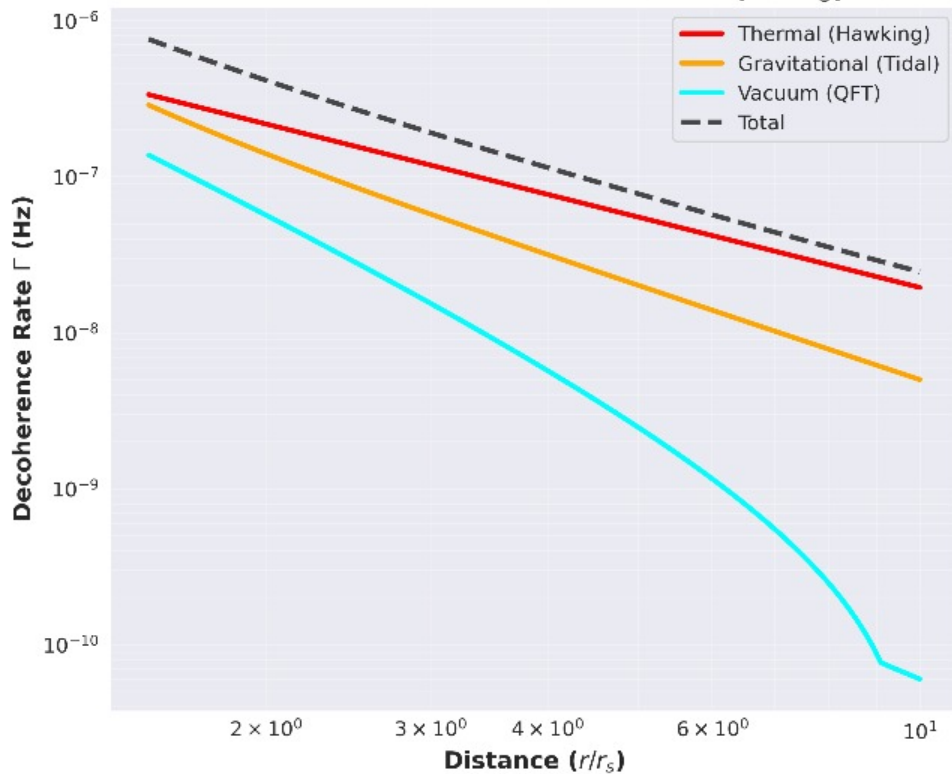
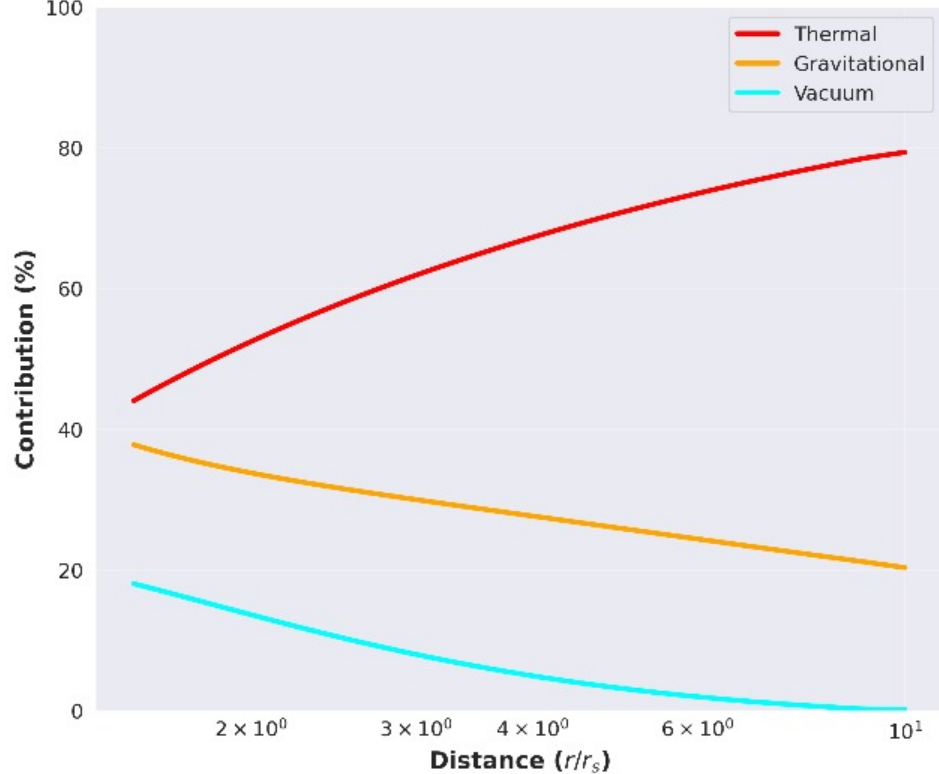
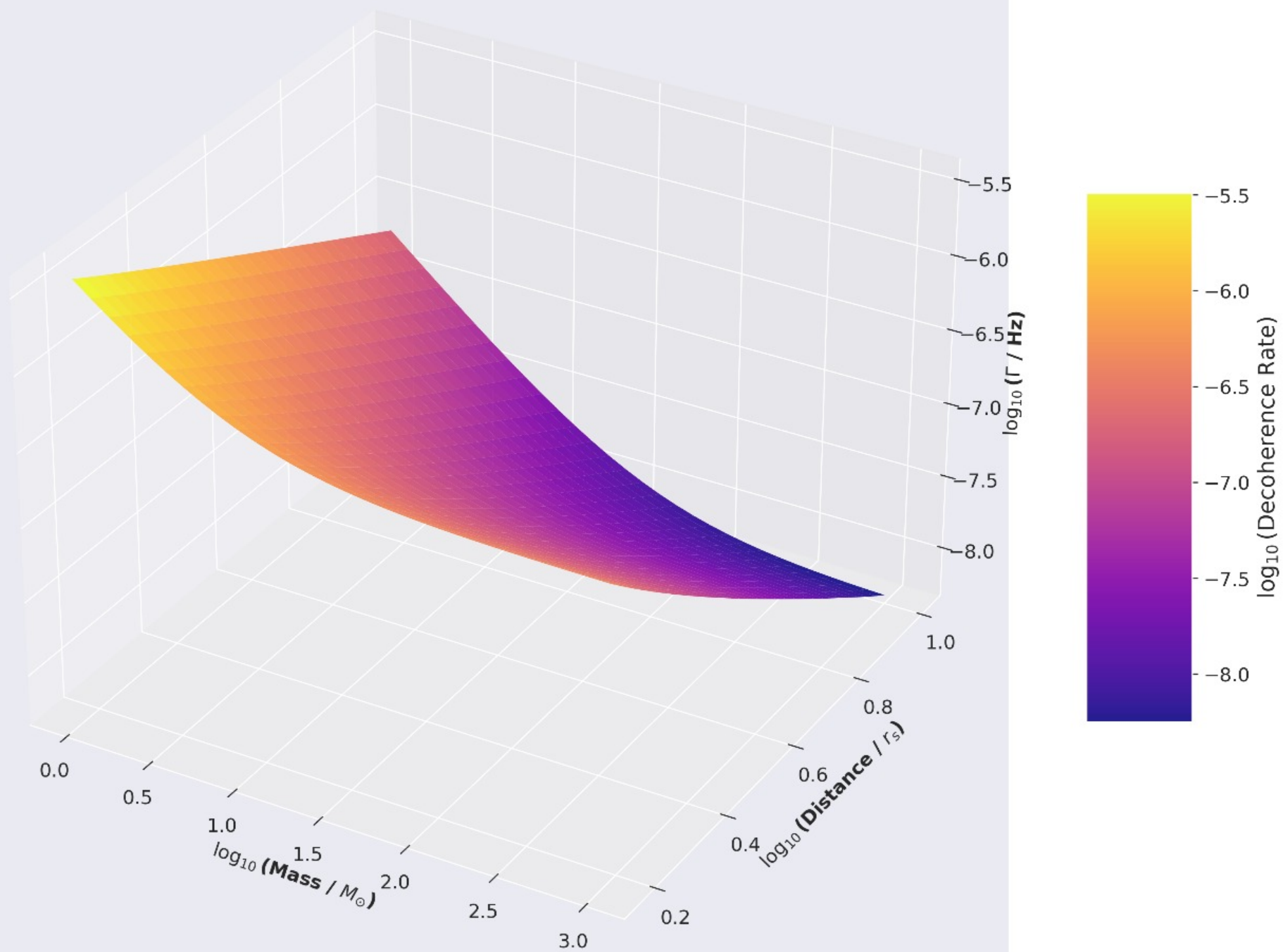
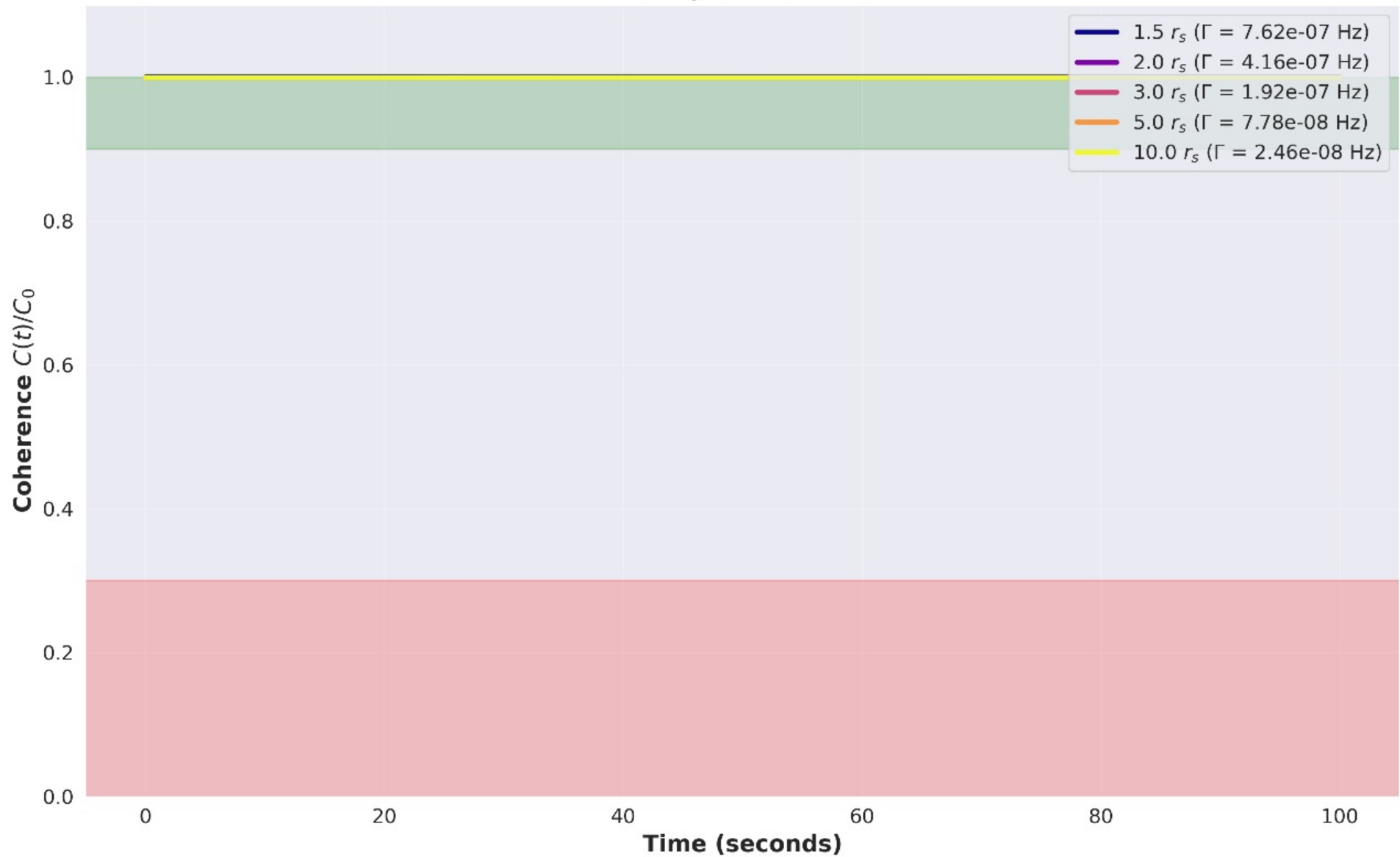


Individual Channel Contributions ($10 M_{\odot}$)**Relative Channel Contributions**

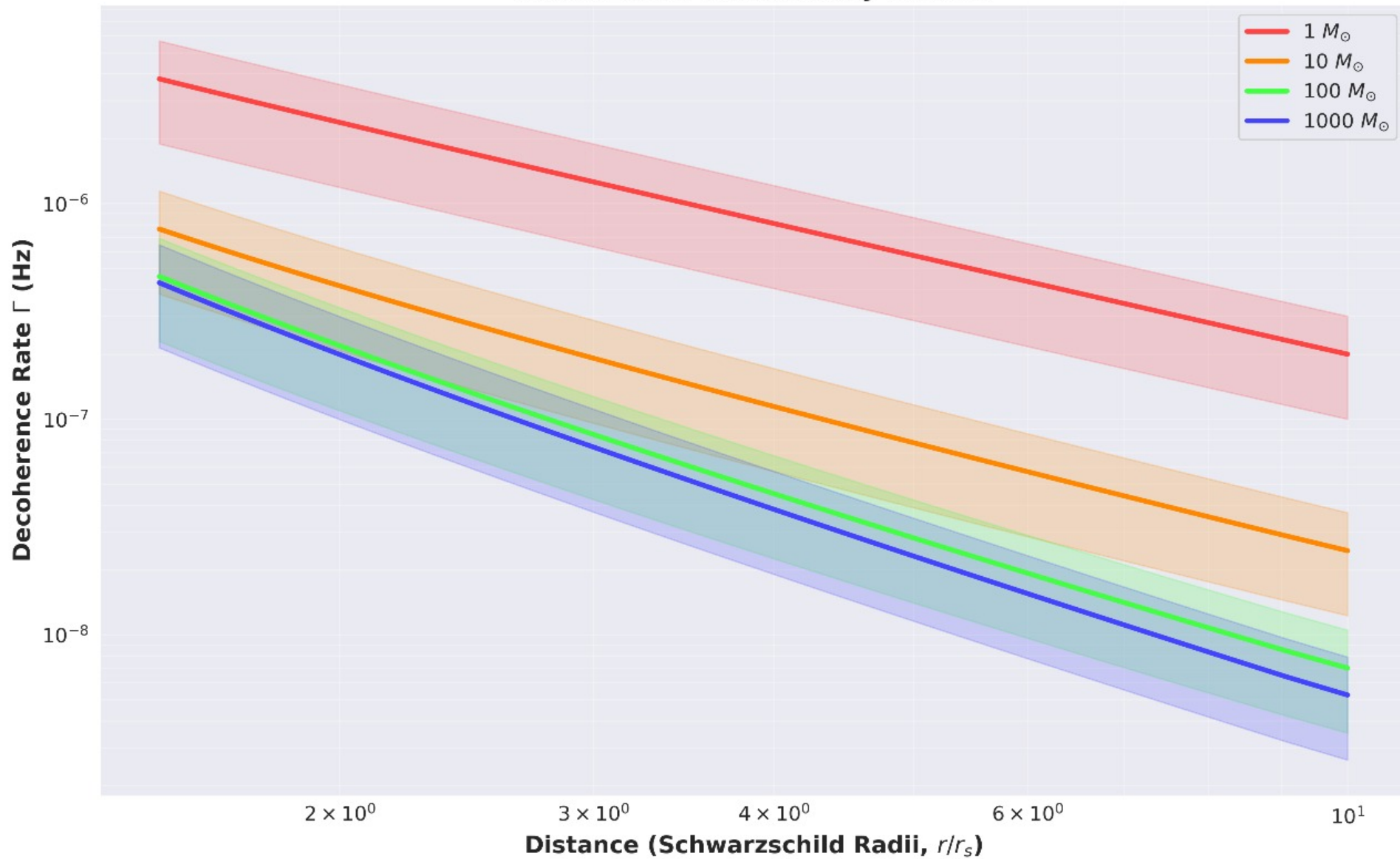
Decoherence Rate: Mass-Distance Dependence



Quantum Coherence Decay Over Time ($10 M_{\odot}$ Black Hole)



**Quantum Decoherence Rate vs Distance from Black Hole
(With $\pm 50\%$ Uncertainty Bands)**



**Model Predictions with Uncertainty Ranges
(Phenomenological Parameters)**

