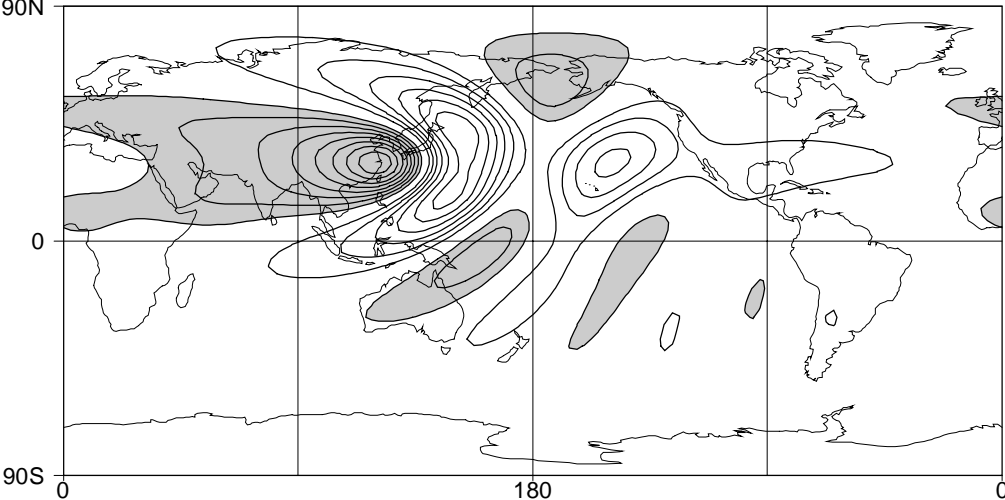
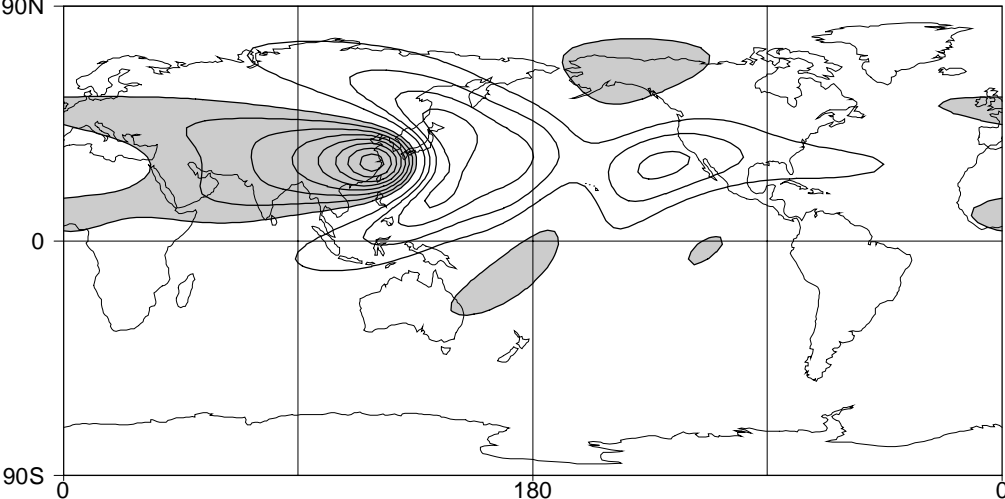


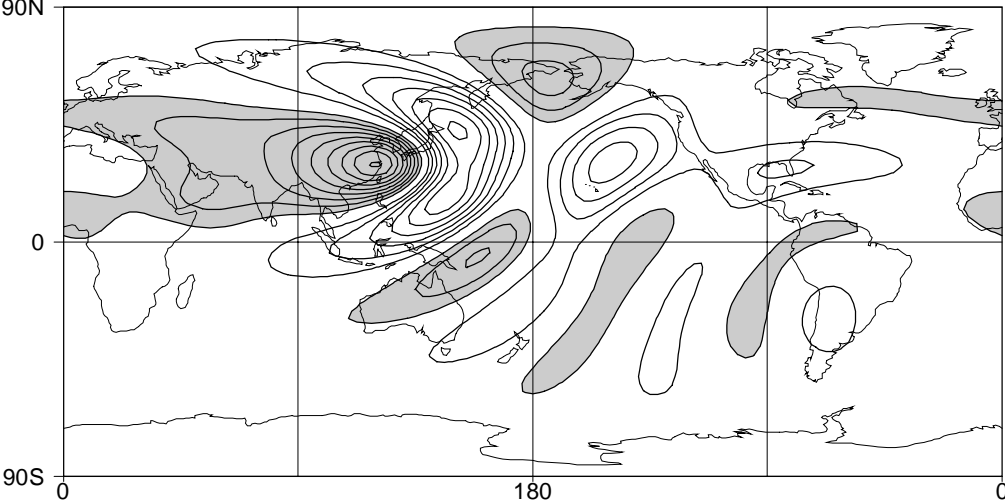
(a) Source at 30 N on superrotating flow



(b) Stochastic perturbation in superrotating flow



(c) Stochastic perturbation in wave damping



General red noise approximation