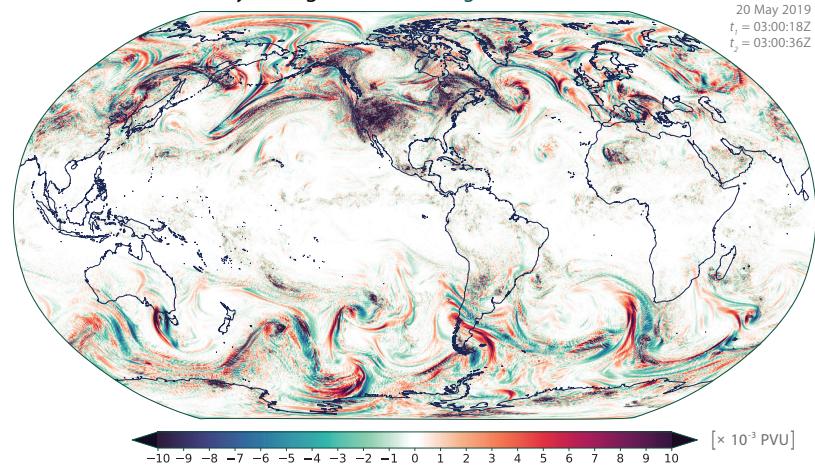
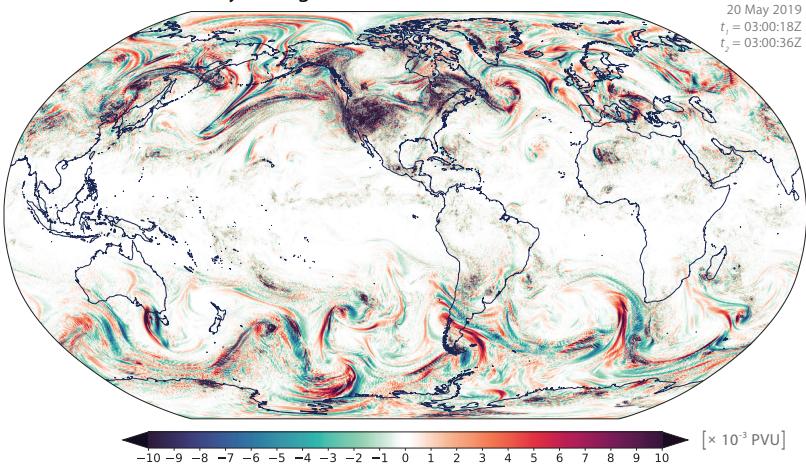
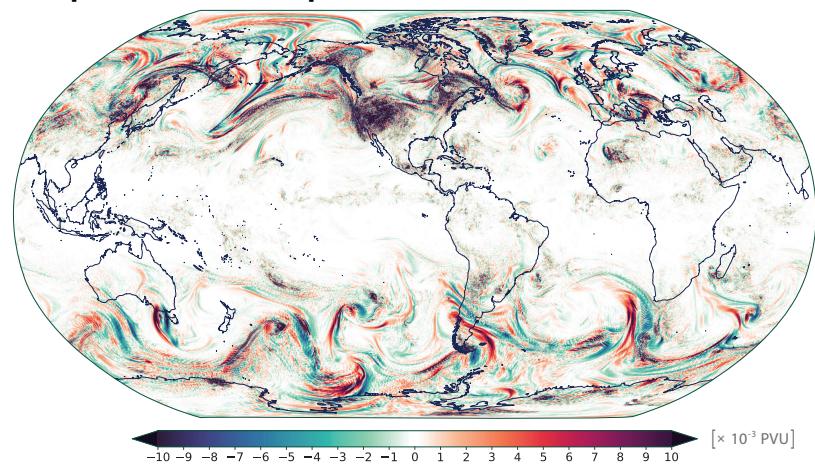
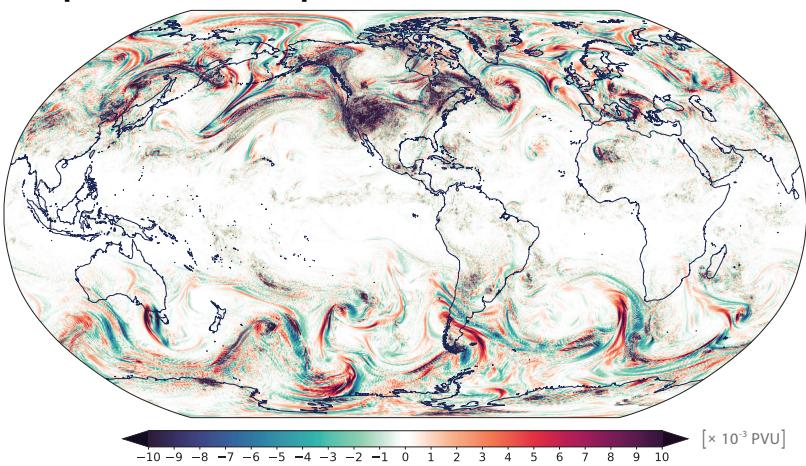


a) Potential Vorticity Change Over Δt – Single Precisionb) Potential Vorticity Change Over Δt – Double Precision

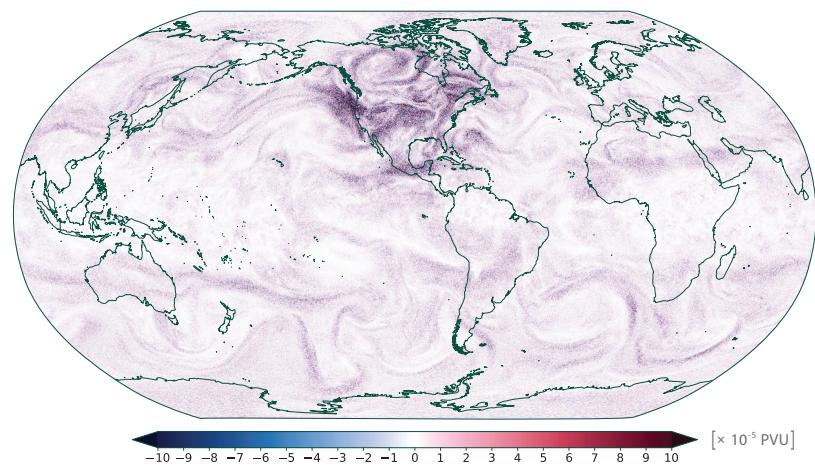
$$c) [\dot{q}_{\text{dynamics}} + \dot{q}_{\text{diabatic}} + \dot{q}_{\text{friction}}] \times \Delta t$$



$$d) [\dot{q}_{\text{dynamics}} + \dot{q}_{\text{diabatic}} + \dot{q}_{\text{friction}}] \times \Delta t$$



$$e) \text{PV Budget Residual Over } \Delta t$$



$$f) \text{PV Budget Residual Over } \Delta t$$

