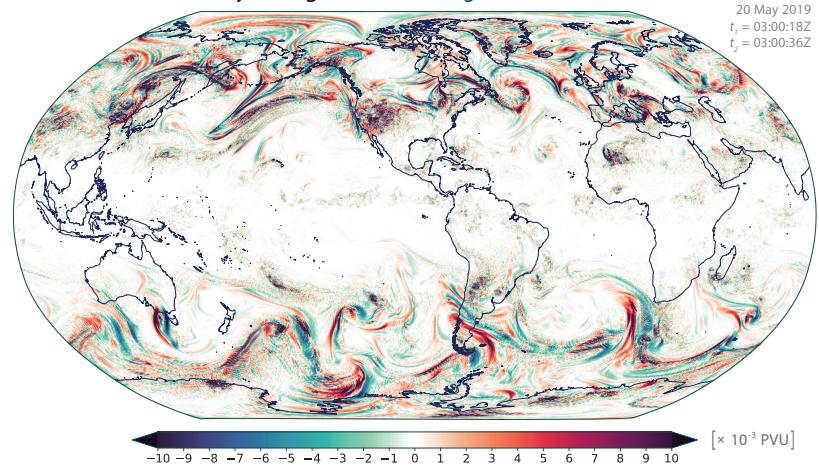
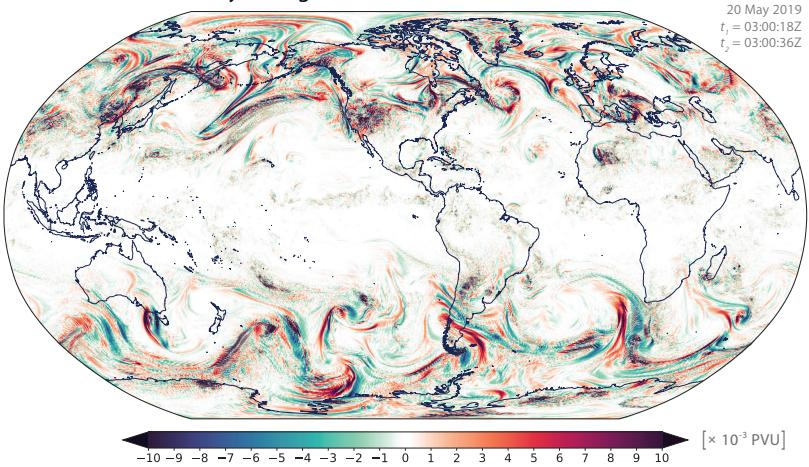


a) Potential Vorticity Change Over Δt – Single Precision

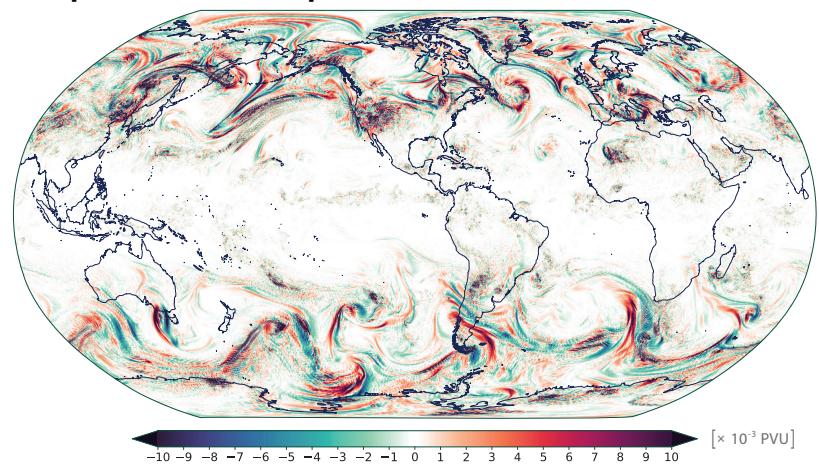
15 km | Model Level 32
20 May 2019
 $t_1 = 03:00:18Z$
 $t_2 = 03:00:36Z$

b) Potential Vorticity Change Over Δt – Double Precision

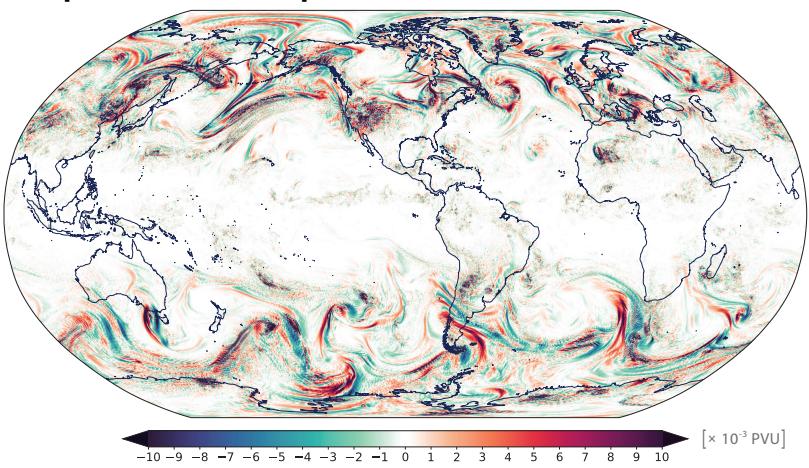
15 km | Model Level 32
20 May 2019
 $t_1 = 03:00:18Z$
 $t_2 = 03:00:36Z$



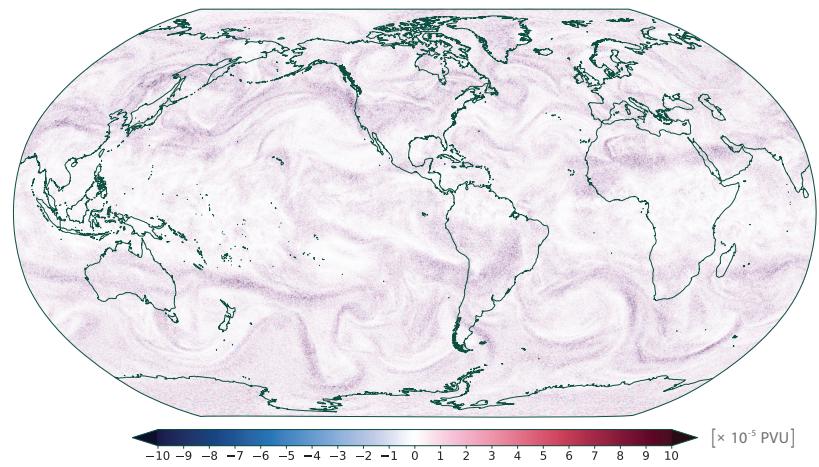
$$c) [\dot{q}_{\text{dynamics}} + \dot{q}_{\text{diabatic}} + \dot{q}_{\text{friction}}] \times \Delta t$$



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



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



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

