

Symbol	Description
T	temperature
T_0	reference temperature
$T' = T - T_0$	temperature deviation from T_0
η	relative vorticity
D	divergence
p_s	surface pressure
Φ	geopotential
t	time
λ, ϕ	longitude, latitude
$\mu = \sin \phi$	
$\sigma = \frac{p}{p_s}$	sigma vertical coordinate
$\dot{\sigma} = \frac{d\sigma}{dt}$	vertical velocity in the σ -system
$\dot{p} = \frac{dp}{dt}$	vertical velocity in the p -system
u, v	zonal, meridional component of horizontal velocity
\mathbf{V}	horizontal velocity with components U, V
f	Coriolis parameter
J	diabatic heating rate
c_p	specific heat of dry air at constant pressure
κ	adiabatic coefficient