Start
Run files ORG, MOD, ANO, REF imported from input directory

Number of iterations given in parameter file (NOFITER)

Loop

Secondary fields [pvin1]

Calculate Ertel's PV, potential temperature, density and squared Brunt-Vaisala frequency

MOD → MOD

Ertels's PV → qgPV [pvin2]

Determine difference of Ertel's PV and the aim of Ertels' PV; then transform it into qgPV

MOD → ANO

Invert qgPV anomaly [pvin3]

Numerical solution of qgPV eqution; Calculate streamfunction and other anomalies

ANO → ANO

Prepare next iterative step [pvin4]

Subtract the outcome of the PV inversion (in ANO) from the modified field (in MOD)

ANO → ANO

Keep iterative step [pvin5]

If specified in the parameter file (SAVEITER), keep the ANO and MOD file for convergence check

ANO → MOD

Further iteration?

Yes

No

End
Export modified file MOD to output directory