```
ln[819]:= Elonlon[lon, lat] := Cos[lon] * (1 + Cos[2 * lat])
      Elatlat[lon, lat] := 0
      Err[lon, lat] := 0
Elonlat[lon, lat] := 0
      Elatr[lon, lat] := 0
      Elonr[lon, lat] := 0
      divElon[lon, lat] :=
       1/(R*Cos[lat])*D[Elonlon[lon, lat], lon]+1/R*D[Elonlat[lon, lat], lat]+
        D[Elonr[lon, lat], R] + 1 / R * (-2 * Tan[lat] * Elonlat[lon, lat] + Elonr[lon, lat])
      divElat[lon, lat] := 1 / (R * Cos[lat]) * D[Elonlat[lon, lat], lon] +
        1/R*D[Elatlat[lon, lat], lat] + D[Elatr[lon, lat], R] +
         1/R*(Tan[lat]*Elonlon[lon, lat] - Tan[lat]*Elatlat[lon, lat] + Elatr[lon, lat])
      divER[lon, lat] := 1 / (R * Cos[lat]) * D[Elonr[lon, lat], lon] + 1 / R * D[Elatr[lon, lat], lat] +
        D[Err[lon, lat], R] + 1/R * (-Elonlon[lon, lat] - Elatlat[lon, lat] - Tan[lat] * Elatr[lon, lat])
In[837]:= divElon[lon, lat]
        (1 + Cos[2 lat]) Sec[lat] Sin[lon]
In[838]:= divElat[lon, lat]
       (1 + Cos[2 lat]) Cos[lon] Tan[lat]
In[839]:= divER[lon, lat]
         (1 + Cos[2lat]) Cos[lon]
```