```
In[852]:= Elonlon[lon, lat] := 0
      Elatlat[lon, lat] := 0
      Err[lon, lat] := 0
      Elonlat[lon, lat] := Cos[lon] * (1 + Cos[2*lat])
      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[861]:= divElon[lon, lat]
         2 \cos[lon] \sin[2 lat]  2 (1 + \cos[2 lat]) \cos[lon] \tan[lat]
Out[861]= --
In[862]:= divElat[lon, lat]
        (1 + Cos[2 lat]) Sec[lat] Sin[lon]
In[863]:= divER[lon, lat]
Out[863]= 0
```