

```
c      +-----+
c      + subroutine : b matrix                      +
c      +-----+
c      subroutine bmatrix(idim,jdim,b,latm,lonm,dlat,dlon,clat,
+          sdevfg,gscale,isphere)
c      implicit none
c      integer idim,jdim
c      integer isphere
c      real diaoff
c      real latm,lonm,dlat,dlon,clat,sdevfg,gscale
c      real b(idim*jdim,idim*jdim)

c      integer k,l,ki,kj,li,lj
c      real klat,klon,llat,llon,clon,cov,varian,dis2
c      real pi

c      pi = asin(1.)*2.

c      clon = clat*cos(latm*pi/180.)
c      varian = sdevfg*sdevfg

c      diagonal elements modification, due to binv
c      if(isphere.eq.1) then
c      diaoff = 1.2
c      write(6,*) 'diaoff =',diaoff
c      else
c      diaoff = 1.
c      endif

c      do k=2,idim*jdim
c      kj = k/idim
c      if(mod(k,idim).ne.0) kj=kj+1
c      ki = k -(kj-1)*idim
c      klat = latm + (kj-(jdim/2+1))*dlat
c      klon = lonm + (ki-(idim/2+1))*dlon
c      do l=1,k-1
c      lj = l/idim
c      if(mod(l,idim).ne.0) lj=lj+1
c      li = l -(lj-1)*idim
c      llat = latm + (lj-(jdim/2+1))*dlat
c      llon = lonm + (li-(idim/2+1))*dlon
c      dis2 = ( ((klat-llat)*clat)**2+
c      +          ((klon-llon)*clon)**2 )
c      +          / gscale**2
c      cov = varian*exp( -dis2 )
c      b(k,l) = cov
c      b(l,k) = cov
c      enddo
c      enddo
c      do k=1,idim*jdim
c      b(k,k) = varian*diaoff
c      enddo
c      end
```