**The USGS updated code (hazFXnga13l.f) seems to have an error in function 'amean11'**

5/7/2015, Y.Lee

Original in the code:

**if**(Vs30.lt.800.)**then**

 **if**(jf.eq.12.or.jf.eq.11)**then**

 amean = amean -0.3 + 0.15\*rl

 **else**

 amean = amean + bcfac(jf)

 **endif** !pga or not?

**endif** !BC rock from A?

May need to be changed to:

**if**(Vs30.lt.800.)**then**

 **if**(jf.eq.13.or.jf.eq.12)**then**

 amean = amean -0.3 + 0.15\*rl

 **else**

 amean = amean + bcfac(jf)

 **endif** !pga or not?

**endif** !BC rock from A?

Reason:

In older version of the code (**hazFXnga13p.f, hazFXnga13z.f**) -

a11fr =(/0.20, 0.333, 0.50, 1.00, 2.00, 3.33, 5.00,10.00,20.,33.00,50.00,99.00,89.00/)

This has been changed to the following in the updated code (hazFXnga13l.f)

a11fr =(/0.20, 0.333, 0.50, 0.667, 1.00, 2.00, 3.33, 5.00,10.00,20.,33.00,50.00,99.00,89.00/)

by adding 1.5s. The 12- and 13-th positions in the updated code that represent the two high-freqency values correspond to the 11- and 12-th positions in the older version of the code. Without this change, it would calculate a different PGA (at 13th position now in the updated code).