(quality 0 picks have stacking weight= 4, event threshold=18)

```
pick-quality field of TYPE_PICK2K message; quality=0 yields stacking weight=4 for this run
STACKING PHASE
     10 6 3 3640 HGS NCVHZ DO
                           19991004003915.29
                                           1519
                                                 1809
                                                       1580 ← raw TYPE_PICK2K message
     19991004_UTC_00:39:20 grid_stack, mhit = 0 	←
                                        - result of stacking attempt: maximum hit count, mhit=0, means that this pick
                                         stacked with no other recent picks.
     10 6 3 3641 HCA NCVHZ UO 19991004003915.00
                                            370
                                                  478
                                                        250
     - next stacking attempt: mhit=8 tells us that this pick (stack weight=4) combined
                                         with another pick or picks (combined stack weight=4).
     10 6 3 3642 HFE NCVHZ U0 19991004003915.56
                                                 1732
                                           1418
     19991004_UTC_00:39:21 grid_stack, mhit = 12
     10 6 3 3643 HCR NCVHZ D0 19991004003916.21
                                           1233
                                                 1385
                                                       1166
     19991004_UTC_00:39:21 grid_stack, mhit = 16
     10 6 3 3644 HLP NCVHZ U0 19991004003916.39
                                           1203
                                                 1475
                                                        855
     19991004_UTC_00:39:21 grid_stack, mhit = 20 ◀ next stacking attempt: mhit=20 is over the event threshold! Declare new event!
     444444444444444444444444448888884448cccccgggggg
     444444444444444444444444444488888884448cccccqqqqcc
     444444444444444444444444444888884448cccccggcccc
     4444444444444444444444444488884448ccccggcccccc
     4444444444444444444444444888844ccccggccccccc
     444444444444444444444444444448844cccqccccc88888
     a SUCCESSFUL STACK
     This block of lines is a graphical representation (map view) of one
     depth layer of the stacking grid. Only the stacking area around the
     initiating pick is shown, not the entire stacking grid. Each character
     represents the maximum hit count (0-9=0-9, a-z=10-35) of one grid
     cell in this layer. The asterisk marks the grid cell that contains the
     initiating pick. The depth layer shown (here it's 10 km) will always
     contain at least one grid cell having the maximum hit count (here
     it's 20=k) for the successful stack.
     of
     444888888888844444444488888c88888cccccc8888484444
     hit[0] = 77 126 2
                                               These lines list the array indices of all of the grid cells which had
      hit[1] = 77 126 3
                                               the maximum hit count (=20) for this stack. The average of the
      hit[2] = 77 126 4
                                               center points of these cells will be passed to the locator as the
      hit[3] = 78 126 4
                                               event's starting (or stacking) location. -
      starting location 1999Oct 4
                            39 12.26 37.0540 -121.4601 15.0 ◀
     grid_stack : npix = 5
                      ← 5 picks contributed to the maximum hit count for this stack
      iter: 0 Start
                         0.09 37.0540 -121.4601 15.00
EVENT LOCATION
                                                   One line for the result of each iteration in the locator:
                                           10.00
      iter: 1 Free
                         0.02 37.0415 -121.4678
      iter : 2 Free
iter : 3 Free
                                                   iter: iteration# solution-type event-rms lat lon depth
                         0.02
                             37.0416 -121.4667
                                            9.68
                         0.02
                             37.0416 -121.4667
                                            9.69
                      hyp: 51090925 19990ct 4
     19991004_UTC_00:39:21
                                           39 13.02 37.0416 -121.4667
                                                                 9.69
                                                                       5
      par : dmin = 2.4, ravg = 9.1, gap = 124.2
                                           final location: hyp: eventid yearmondy hrmn sec lat lon depth #picks
      pck: HGS NCVHZ P 0D 6.20
                            15.29 -0.00 <1.00>
                                              One line for each pick associated with the event:
      pck : HCA
              NCVHZ P
                     ΟU
                        2.39
                            15.00 -0.00 <1.00>
                                               pck: SNC phs quality fm dist arr-secs residual <location-weight>
      pck : HFE
              NCVHZ P
                     ΟU
                        8.59
                            15.56 0.00 <1.00>
                                              where SNC = site network component codes, phs = phase assigned by
      pck : HCR NCVHZ P
                     0D 13.96 16.21 -0.09 <1.00>
                                              binder (P,Pg,Pn,S,Sg,Sn), fm= first motion, arr-secs = seconds portion
      pck : HLP NCVHZ P 0U 14.54 16.39 0.00 <1.00>
                                              of arrival time.
                       rms : 0.02, dmin =
```