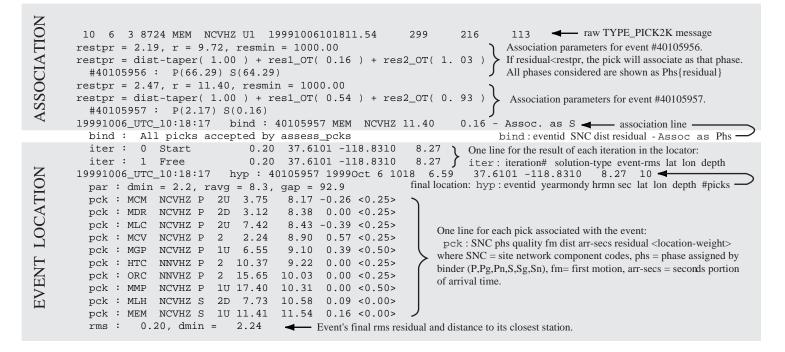
SAMPLES FROM BINDER'S LOGFILE: PICK ASSOCIATED WITH ACTIVE HYPOCENTER

A pick will associate with an event as a given phase if its residual is less than the residual taper value (restpr) which incorporates distance and origin-quality terms (see discussion for details). In this case, a total of four phases from two hypocenters were evaluated (P,S for #40105956 and P,S for #40105957). Both P and S phases for event #40105957 qualified, but the S-phase had the lowest residual and won. The pick set was then evaluated by pick-group-assessment (the event has 10 phases, we're assessing pick-groups with between 8 and 12 picks here), all the picks were accepted, and theevent was reloca ted. On the first iteration, the step-vectorwas smaller than the MinXYSstep (set to 0.1 km here), so nomore iterati ons were performed.



SAMPLES FROM BINDER'S LOGFILE: FAILED ASSOCIATION & FAILED STACK

Sample of a pick that attempted to associate with an event, but failed because none of the phases considered had a residual smaller than the residual taper value. Since the association failed, a stack was attempted. But the stack failed to generate a new event (event threshold = 18). The pick remains unassociated and may be used in future stacks.



```
10
6
3
4082
CMN
NCVHZ
U2
19991004011915.49
169
149
112
← raw TYPE_PICK2K message

restpr = 2.70, r = 85.87, resmin = 1000.00
restpr = dist-taper(1.36) + resl_OT(0.26) + res2_OT(1.08)
Association parameters for event #51090926.

#51090926 : P(-8.04) S(-18.62)
19991004_UTC_01:19:21 grid_stack, mhit = 4
← stack attempt
```