



- ▲ Slope-break knickpoint on mainstem (sbkp)
- Tributary and mainstem collapse on  $\chi$  plot; confluence with mainstem is at or below sbkp or mainstem has lowered; included in regression analysis
- Tributary and mainstem collapse on  $\chi$  plot; confluence with mainstem is above sbkp
- Tributary and mainstem do not collapse on  $\chi$  plot