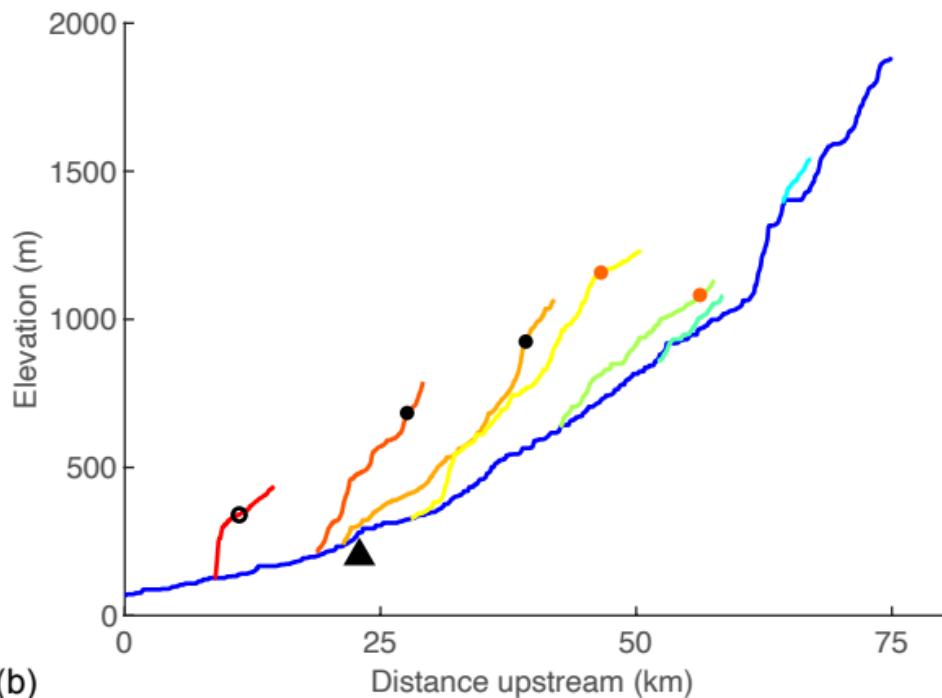
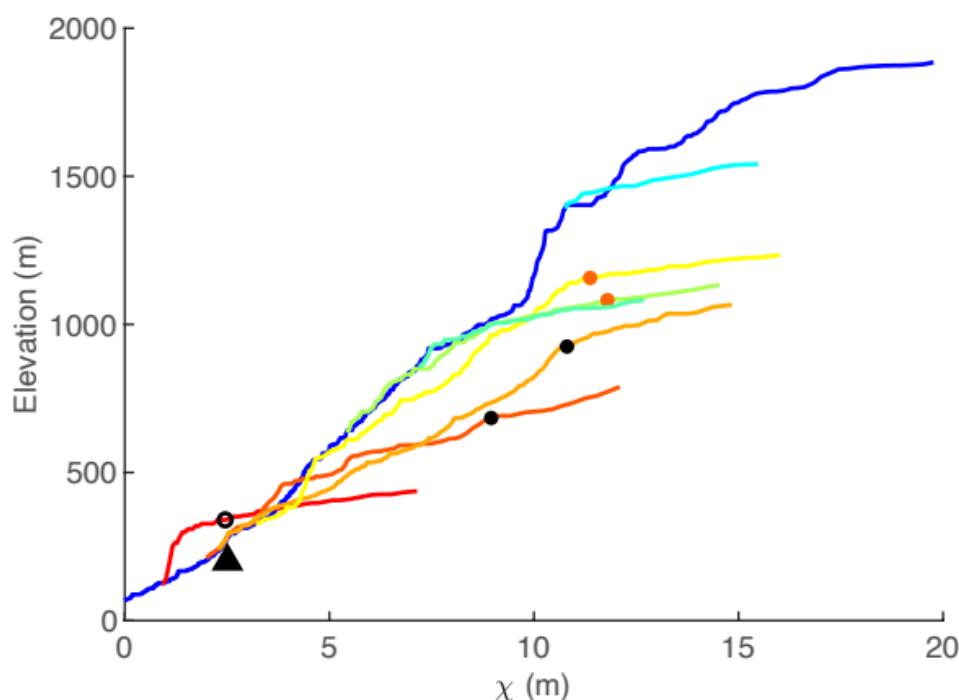


(a)



(b)



- ▲ Slope-break knickpoint on mainstem (sbkp)
- Tributary and mainstem collapse on χ plot; confluence with mainstem is at or below sbkp or mainstem has lowered
- Tributary and mainstem collapse on χ plot; confluence with mainstem is above sbkp
- Tributary and mainstem do not collapse on χ plot