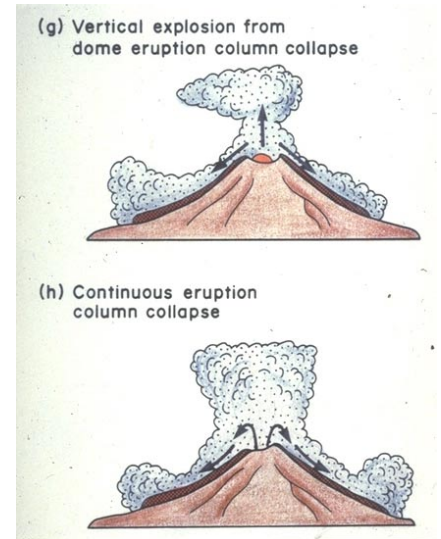
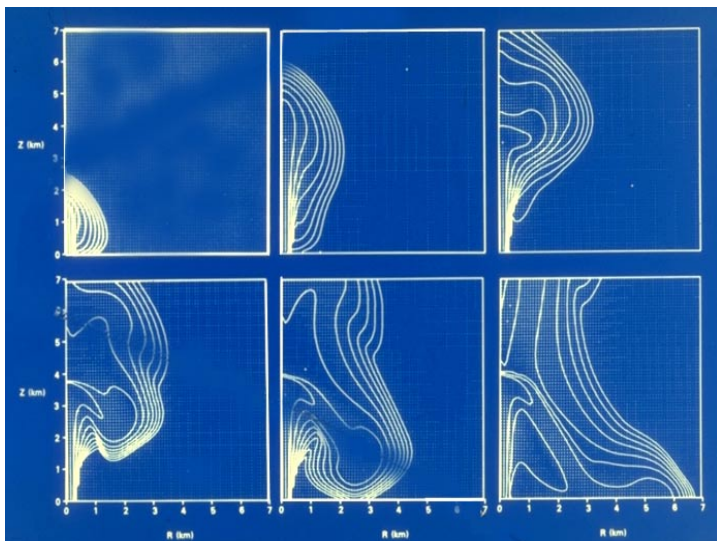
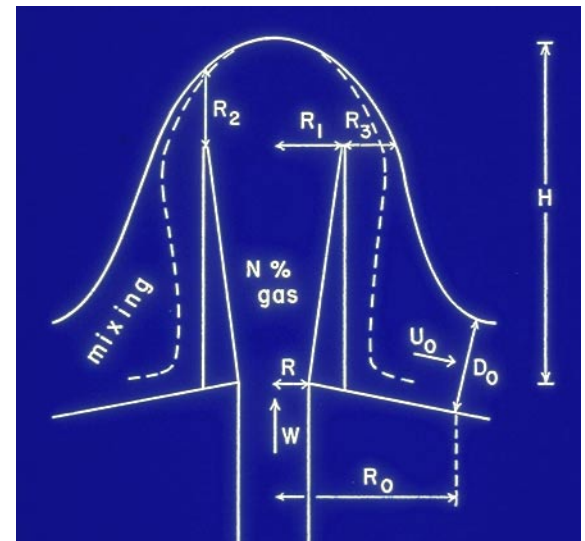


Column Collapse

- Energy: P.E. And K.E.
- Column stability
- Gas content, muzzle velocity, conduit radius
- Mass eruption rate
- Sustained column
- Unstable, collapsing column



Asama Plume 1973



Emplacement

- Mixtures of solid particles and gas
- High concentration ($0.1 < C < 0.6$)
- Able to surmount hills and ridges
- Travel great distances 10s of km
- Can support large pumice blocks
- Fine ash matrix

