

Ge 151

Endogenic Processes:

Crustal Deformation on Earth-like Planets

A. Categories

-Collapse – Mars

- Extension –

Normal faults, graben (4.37, p. 182) (either subsidence or uplift) post impact subsidence

- Compression – crustal shortening (4.39, p. 188)
impact compression – basins

- Shear – only on Earth, Ganymede (ancient) for sure

B. Moon

Extension only (4.2, p. 129; 4.1, p. 127)
(except for ancient basin maria)

Mercury

Extension and compression
(6.2, p. 240, 241; 6.5, p. 248; 6.8, p. 253)

Venus

Extension and compression

Mars

Extension and collapse; many episodes