

Baseline Conceptual Model

APPENDIX 1

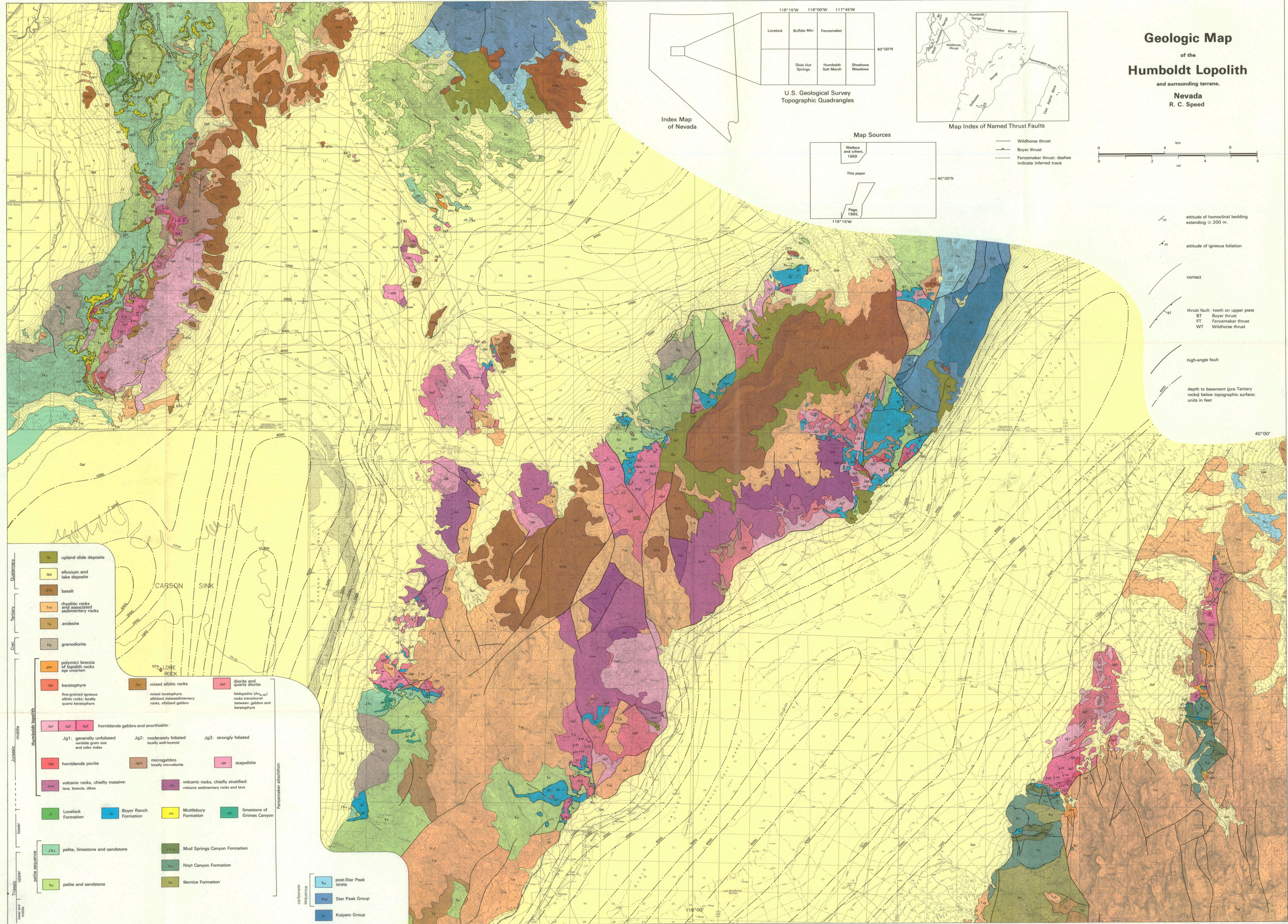
GEOLOGIC MAPS

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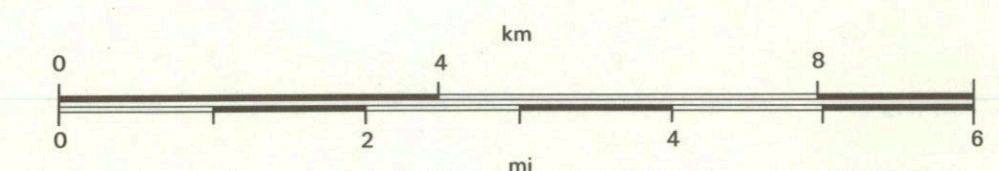
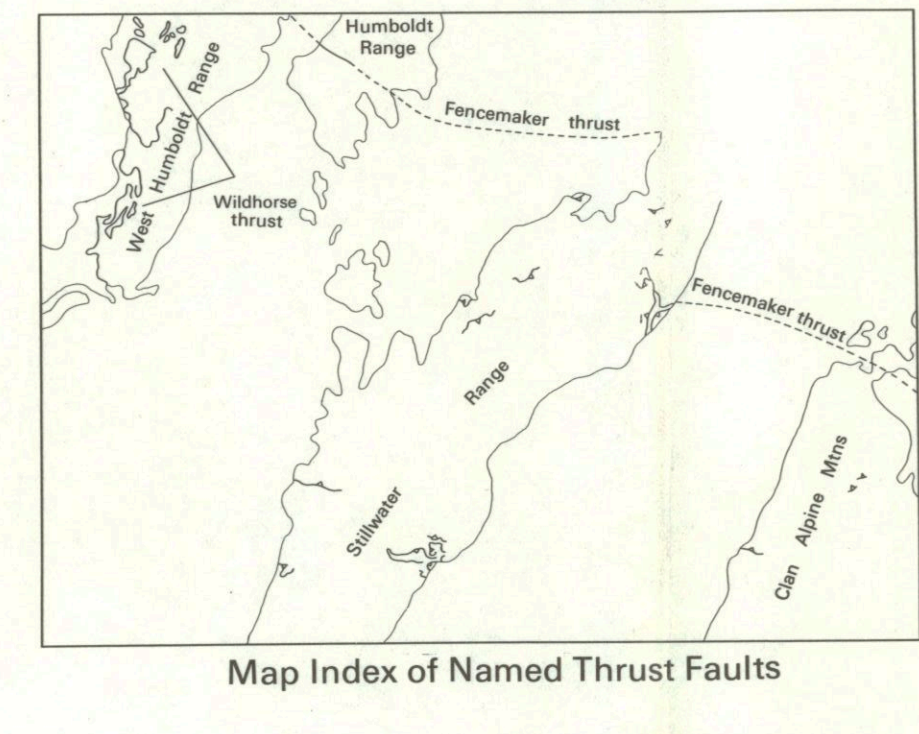
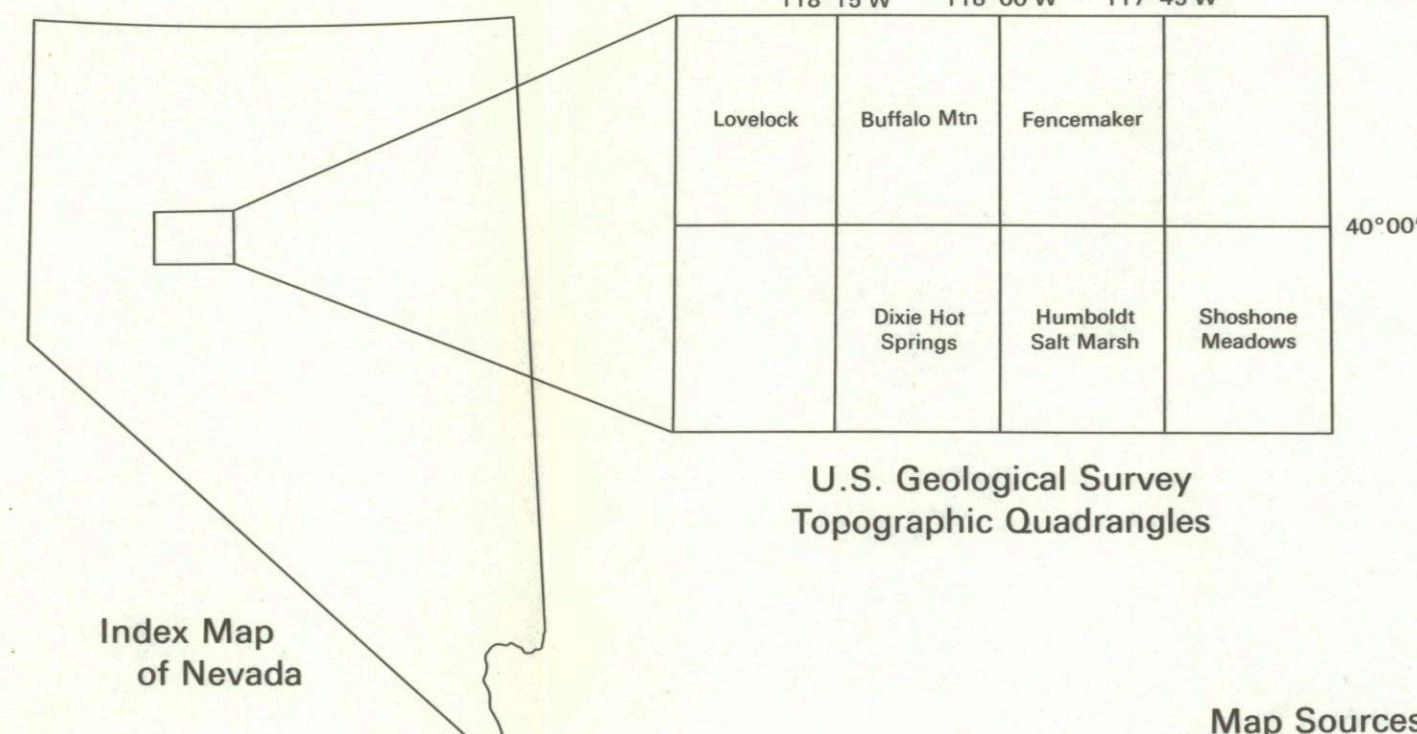
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Baseline Conceptual Model



Geologic Map of the Humboldt Lopolith and surrounding terrane, Nevada R. C. Speed



- altitude of homoclinal bedding extending ≥ 200 m.
- altitude of igneous foliation
- contact
- thrust fault: teeth on upper plate
- BT Boyer thrust
- FT Fencemaker thrust
- WT Widhorse thrust
- high-angle fault
- depth to basement (pre-Tertiary rocks) below topographic surface; units in feet

- Quaternary
 - Qal alluvium and lake deposits
- Tertiary
 - Qth basalt
 - Tva rhyolitic rocks and associated sedimentary rocks
 - Ta andesite
 - Kg granodiorite
- Cretaceous
 - gbr polymict breccia of lopolith rocks age uncertain
 - keratophyre
 - fine-grained igneous, albitic rocks, locally quartz keratophyre
 - mixed albitic rocks
 - diorite and quartz diorite
 - feldspathic (Al_2O_3) rocks transitional between gabbro and keratophyre
- Jurassic
 - homblende gabbro and anorthosite:
 - Jg1: generally unfoliated, variable grain size and color index
 - Jg2: moderately foliated, locally well-layered
 - Jg3: strongly foliated
 - homblende picrite
 - microgabbro, locally microdiorite
 - scapolite
 - volcanic rocks, chiefly massive: lava, breccia, dikes
 - volcanic rocks, chiefly stratified: volcanic sedimentary rocks and lava
- Triassic
 - Lovelock Formation
 - Boyer Ranch Formation
 - Muttelbury Formation
 - limestone of Grimes Canyon
 - pelite, limestone and sandstone
 - Mud Springs Canyon Formation
 - Hoyt Canyon Formation
 - Bernice Formation
 - pelite and sandstone
- Carbonate sequence
 - post-Star Peak strata
 - Star Peak Group
 - Koipato Group

