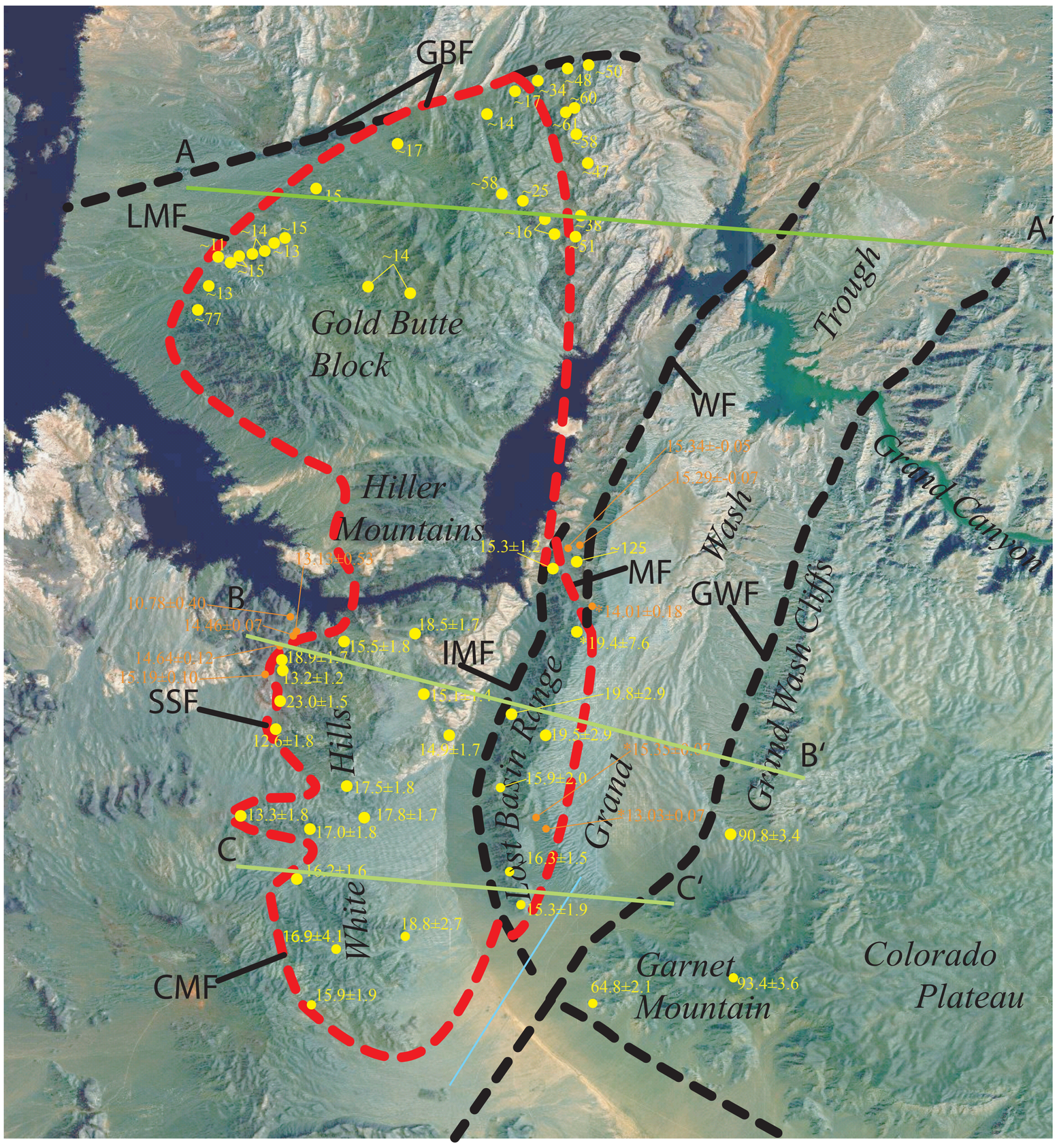
Plate 4-Regional Structure Map with Apatite Fission Track and $^{40}Ar/^{39}Ar$ Data

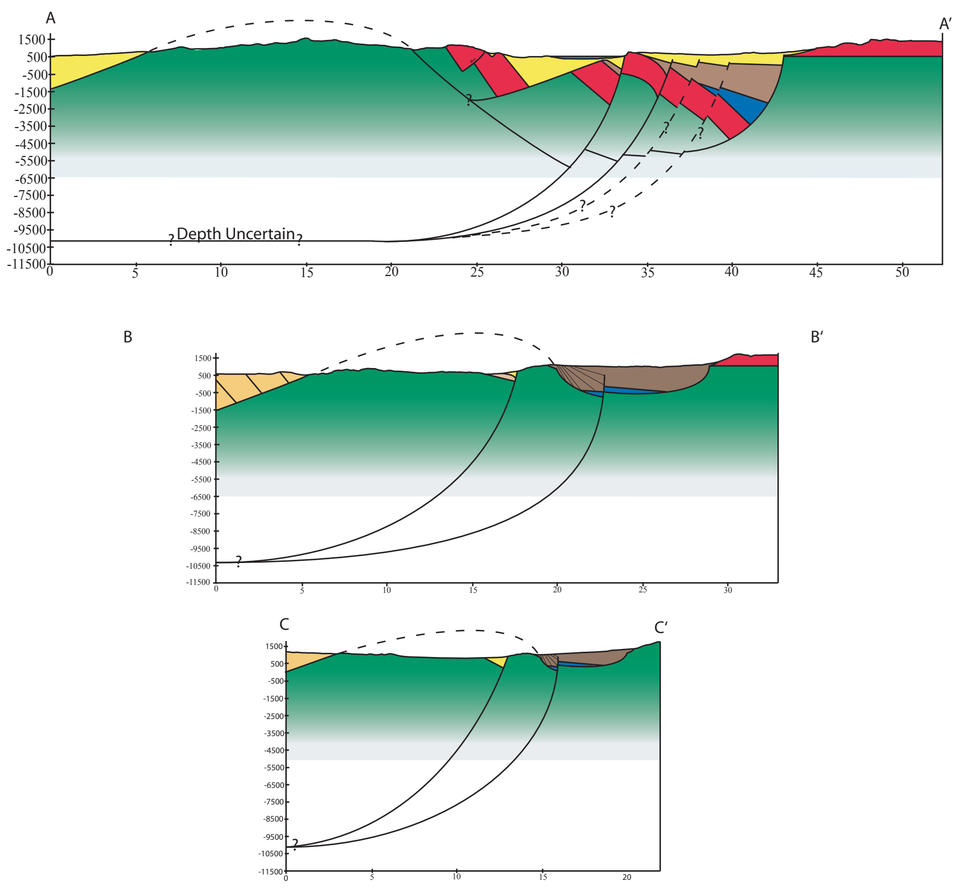
Legend

- Detachment fault
- Other major faults
- Approximate trace of seismic profile RL-1
- Apatite fission track sample location (* indicates new data)
- $^{40}Ar/^{39}Ar$ sample location (* indicates new data)
- Cross section trace

GWF-Grand Wash fault
WF-Wheeler Ridge fault
MF-Meadview fault
IMF-Infernal Mountains fault
GBF-Gold Butte fault
LMF-Lakeside Mine fault
SSF-Salt Spring fault
CMF-Cyclopic Mine fault



Interpretive Cross Sections



- Undifferentiated Tertiary and Quaternary post-extensional deposits.
- Hualapai Limestone
- Miocene megabreccia deposits, bedding shown in section B-B' is extrapolated from bedded rocks to the south of the section trace.
- Miocene synextensional conglomerate section. Bedding shown in sections B-B' and C-C' is schematic.
- Postulated unexposed supradetachment basin deposits.
- Paleozoic sedimentary section (Tapeats Sandstone through Kaibab)
- Undifferentiated pre-Miocene crystalline rocks. Gradient shows uncertainty in section at depth .

N

0 5 10
km