

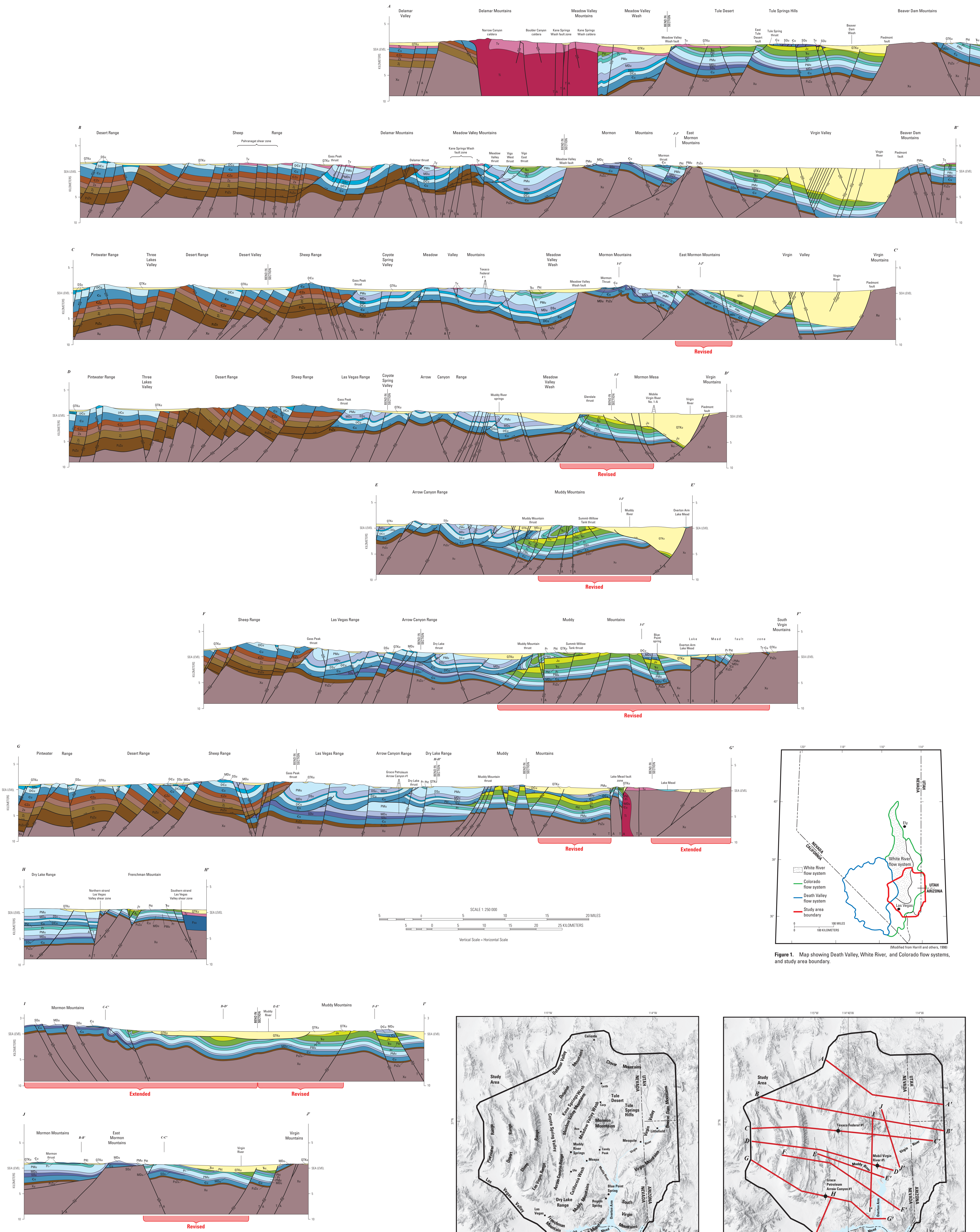


Figure 2. Index map showing major physiographic features in the study area.

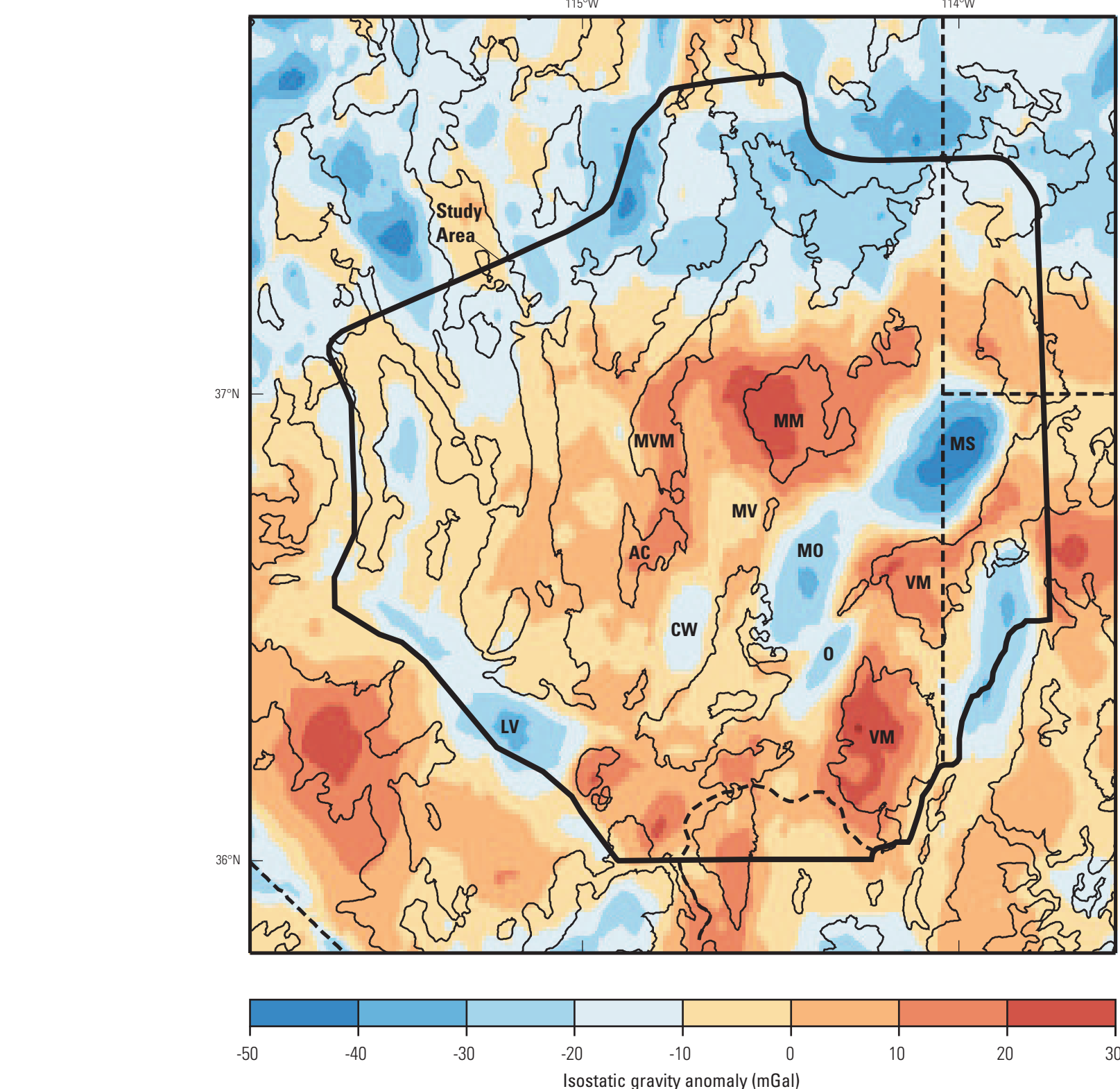


Figure 4. Isostatic gravity anomalies of the study area that reflect shallow crustal density variations. Blue colors indicate mass deficits (for example, accumulations of low-density material such as Cenozoic basin-fill deposits and/or volcanic rocks) and red colors indicate mass excesses, generally in ranges comprised and underlain by dense units. MS, Mesquite basin; MO, Mormon basin; O, Overton Arm basin; CW, California Wash basin; LV, Las Vegas basin; MV, Lower Meadow Valley Wash basin; MVM, Meadow Valley Mountains; AC, Arrow Canyon Range; MM, Mormon Mountains; and VM, Virgin Mountains. Blue colors in northern part of study area are low-density volcanic rocks. Dark-red colors in Mormon Mountains, Virgin Mountains, and Lake Mead area are Early Proterozoic crystalline rock. Thin black solid lines are range outlines.



Figure 5. Generalized map of the principal structural features in the study area.

This Report	Page and others (2005)					
	Pinetree, Desert, Sheep, and Las Vegas Ranges	Clover and N. Delamar Mountains	S. Delamar and S. Meadow Valley Mountains	Arrow Canyon Range and S. Meadow Valley Mountains	Tule Springs Hills, Mormon and Muddy Mountains	Beaver Dam and Virgin Mountains, and Lake Mead
Ju	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Not Exposed	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.
Tu	Not Exposed	Chile Fm., Monticelli Fm.	Chile Fm., Monticelli Fm.	Not Exposed	Chile Fm., Monticelli Fm.	Chile Fm., Monticelli Fm.
PK	Not Exposed	Kahua Fm., Torowang Fm.	Kahua Fm., Torowang Fm.	Not Exposed	Kahua Fm., Torowang Fm.	Kahua Fm., Torowang Fm.
Pr	Not Exposed	Lower Permian redbeds	Lower Permian redbeds	Not Exposed	Lower Permian redbeds	Lower Permian redbeds
PMu	Not Exposed	Blind Spring Fm., Indian Springs Fm.	Blind Spring Fm., Indian Springs Fm.	Blind Spring Fm., Indian Springs Fm.	Blind Spring Fm., Indian Springs Fm.	Blind Spring Fm., Indian Springs Fm.
MDu	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.
OSu	Not Exposed	Simmons Dbl., Ely Springs Dbl.	Simmons Dbl., Ely Springs Dbl.	Simmons Dbl., Ely Springs Dbl.	Simmons Dbl., Ely Springs Dbl.	Simmons Dbl., Ely Springs Dbl.
OCu	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.
Cu	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.
PZu	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.
Xu	Not Exposed	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.	Artes St. Fm., Kaysville Fm., Shoshone Fm.

Table 1. Relationships between bedrock map units (Mesozoic-Proterozoic) in the cross sections and geologic map of Page and others (2005).

REVISED GEOLOGIC CROSS SECTIONS OF PARTS OF THE COLORADO, WHITE RIVER, AND DEATH VALLEY REGIONAL GROUNDWATER FLOW SYSTEMS, NEVADA, UTAH, AND ARIZONA

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2011