

Plate 1: Paleogene subcrop data for the Sevier hinterland

Contractional Structures

- Wells area:**
IT: Independence thrust
- Central Nevada thrust belt:**
Eureka area to Pancake Range:
HF: Hoosac fault
PSF: Pinto Summit fault
MNT: Mortiz-Nager thrust
MPT: Moody Peak thrust
DWT: Duckwater thrust
PCT: Pancake thrust
MSS: McClure Spring syncline
Grant/Quinn Canyon Ranges:
TMA: Timber Mountain anticline
SCT: Schofield Canyon thrust
RT: Rimrock thrust
SMT: Sawmill thrust
Garden Valley thrust system:
FT: Freiberg thrust
LT: Lincoln thrust
SPF: Schofield Pass fault
ST: Schofield thrust
GGT: Golden Gate thrust
MIT: Mount Irish thrust
PT: Pahranaagat thrust
EPF: East Pahranaagat fault

- Sevier fold-thrust belt:**
Nevada Test Site/Nellis Range:
BRT: Belted Range thrust
MJT: Meikeljohn thrust
PNT: Panama thrust
CPT: CP thrust
SRT: Specter Range thrust
SDT: Spotted Range thrust
PA: Pintwater anticline
North of Nellis Range:
BICT: Big Cow thrust
FIRT: Fishhook Ridge thrust
East of Nellis range:
GPT: Gass Peak thrust
DT: Delamar thrust
DLT: Dry Lake thrust
MMT: Muddy Mountains thrust
GT: Glendale thrust
WTT: Willow Tank thrust
MT: Mormon thrust
TST: Tule Spring thrust
South of Las Vegas Valley:
WPT: Wheeler Pass thrust
LCNT: Lee Canyon thrust
GMT: Green Monster thrust
KT: Keystone thrust
CT: Contact thrust
RST: Red Spring thrust
BST: Bird Spring thrust

Sevier fold-thrust belt, continued:

- Southeast California:
WpPT: Winters Pass-Pachalka thrust
MPT: Mesquite Pass thrust
KMMT: Keaney/Mollusk Mine thrust
LCT: Last Chance thrust
GRT: Grapevine thrust
MCT: Marble Canyon thrust
LMT: Lemoigne thrust
SPT: Schaub peak thrust
CLT: Clery thrust
BVT: Butte Valley thrust
Southern and central Utah:
CRT: Canyon Range thrust
WWT: Wah Wah thrust
FRT: Frisco thrust
BLT: Beaver Lake Mountains thrust
Northern Utah:
CNT: Charleston-Nebo thrust
NOT: North Oquirrh thrust
MDT: Midas thrust
STT: Stockton thrust
TVT: Tintic Valley thrust
BCT: Broad Canyon thrust
DRT: Delle Ranch-East thrust
CDT: Cedar thrust
SVT: Skull Valley thrust
GCT: Government Canyon thrust
PLT: Pole Canyon thrust
SRT: Sheeprock thrust

Scale: 1:1,125,000

0 10 20 30 40 50 km

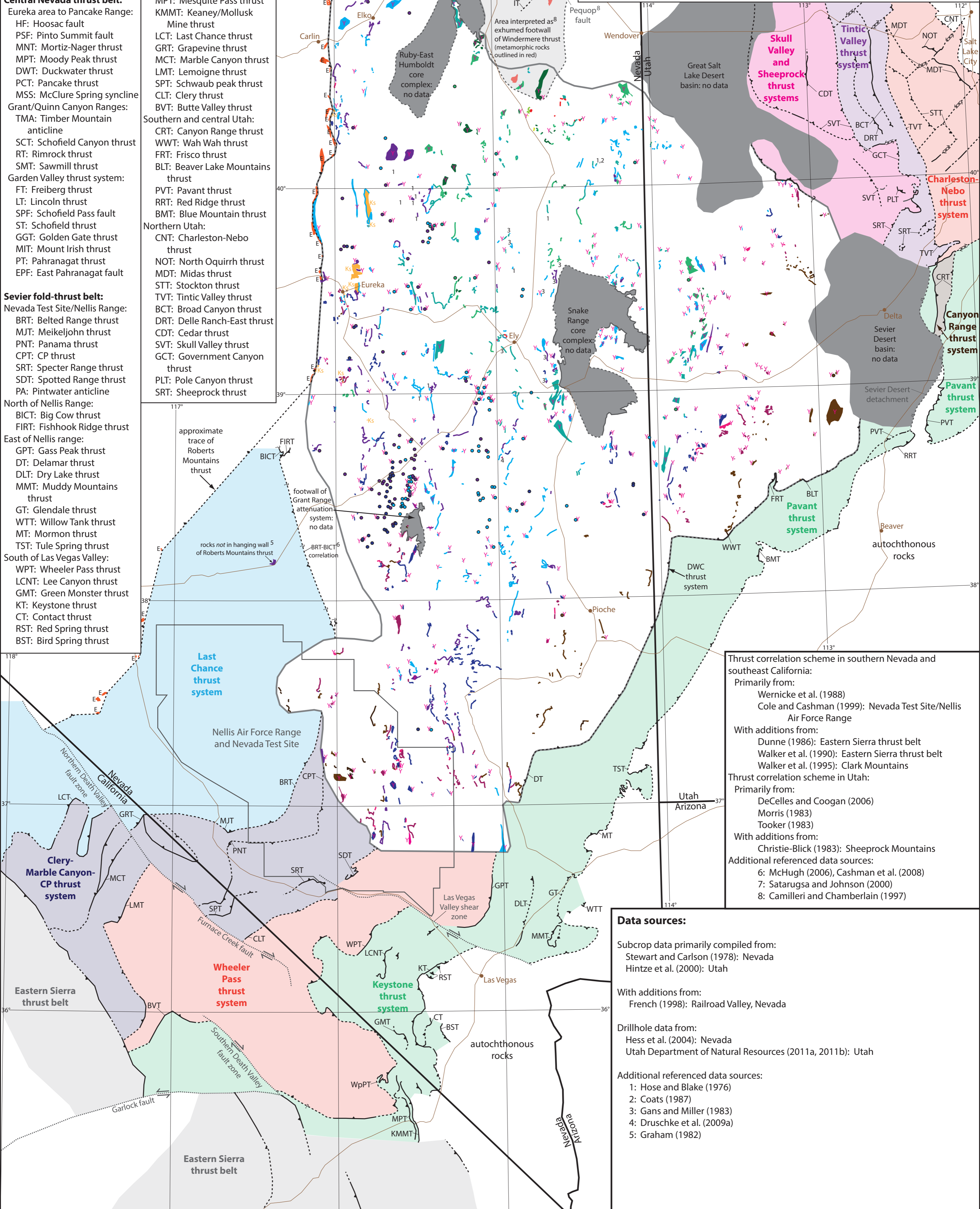


Subcrop data explanation:

- Subcrop age beneath exposure of Paleogene unconformity
- Youngest permissible subcrop age beneath Paleogene unconformity (where not exposed)
- Subcrop age beneath Paleogene unconformity in drill hole
- Youngest permissible subcrop age beneath Paleogene unconformity in drill hole
- Easternmost exposure of rocks in hanging wall of Roberts Mountains thrust

Subcrop age color key:

- | | | | |
|---------|-------|---------|-------|
| Nevada: | Utah: | Nevada: | Utah: |
| Ks | JTra | MDs | M |
| Trch | Tr1 | Dc | D |
| Trmt | P2 | SOc | S |
| Pc | P1 | Oc | O |
| Psc | PP | Cc | C |
| PPcd | PPc | CZq | C1 |
| | | Zqs | |



Thrust correlation scheme in southern Nevada and southeast California:
Primarily from:
Wernicke et al. (1988)
Cole and Cashman (1999): Nevada Test Site/Nellis Air Force Range
With additions from:
Dunne (1986): Eastern Sierra thrust belt
Walker et al. (1990): Eastern Sierra thrust belt
Walker et al. (1995): Clark Mountains
Thrust correlation scheme in Utah:
Primarily from:
DeCelles and Coogan (2006)
Morris (1983)
Tooker (1983)
With additions from:
Christie-Blick (1983): Sheeprock Mountains
Additional referenced data sources:
6: McHugh (2006), Cashman et al. (2008)
7: Satarugsa and Johnson (2000)
8: Camilleri and Chamberlain (1997)

Data sources:
Subcrop data primarily compiled from:
Stewart and Carlson (1978): Nevada
Hintze et al. (2000): Utah
With additions from:
French (1998): Railroad Valley, Nevada
Drillhole data from:
Hess et al. (2004): Nevada
Utah Department of Natural Resources (2011a, 2011b): Utah
Additional referenced data sources:
1: Hose and Blake (1976)
2: Coats (1987)
3: Gans and Miller (1983)
4: Druschke et al. (2009a)
5: Graham (1982)