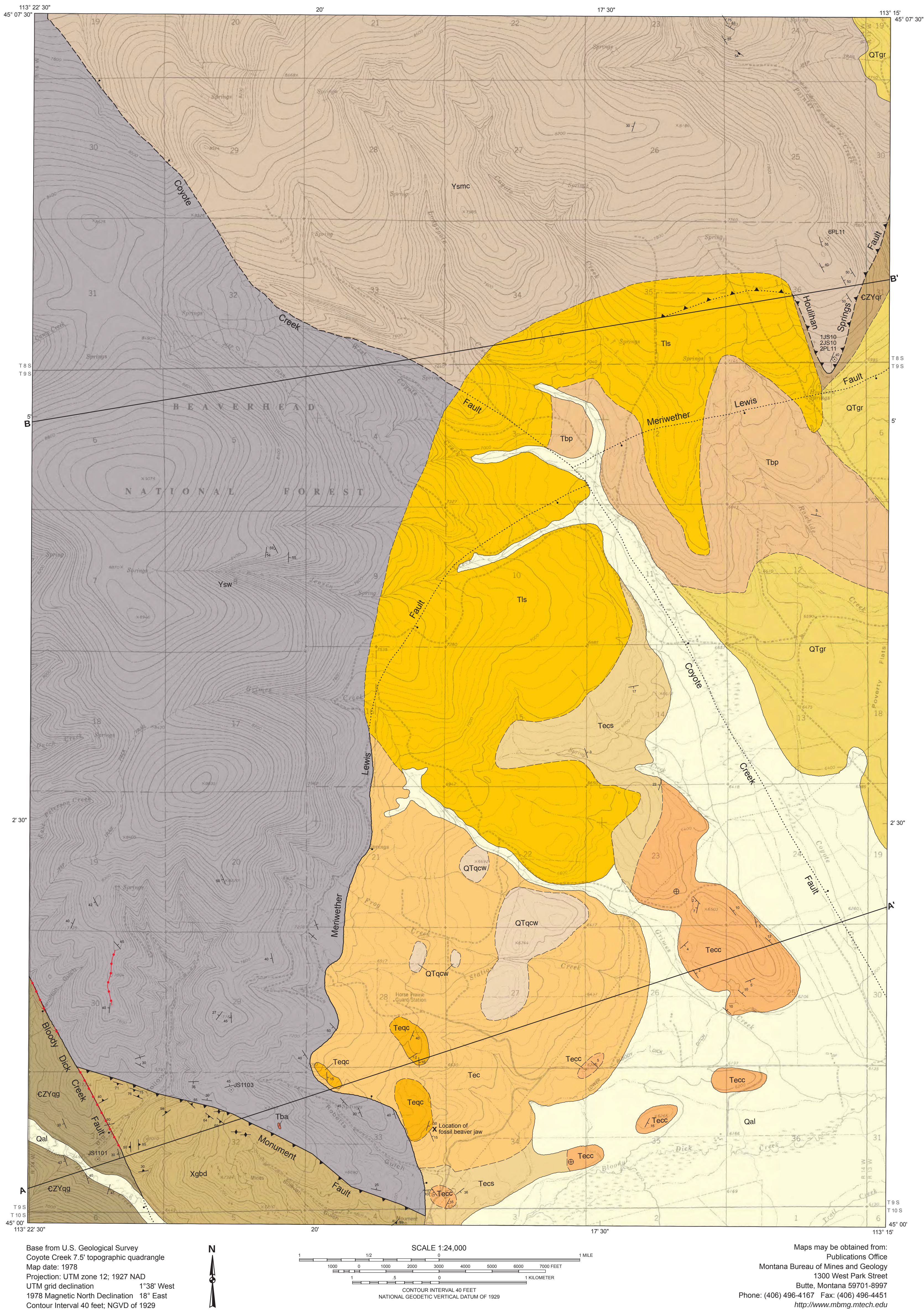


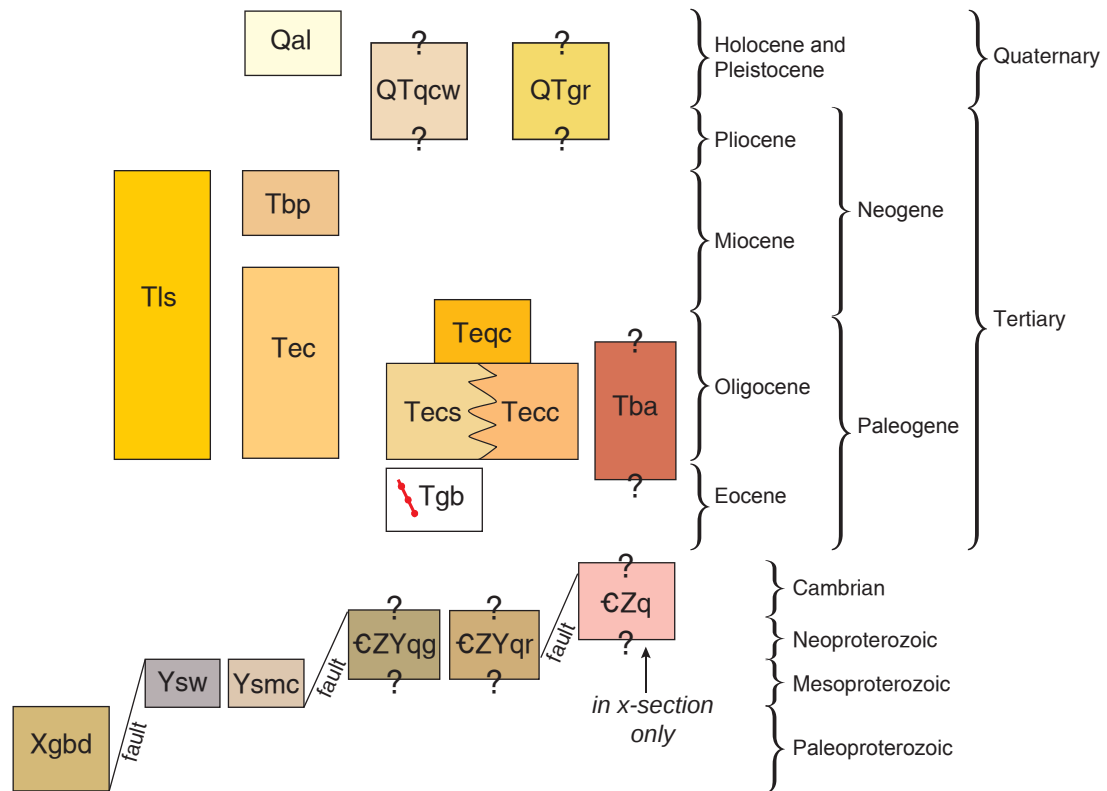


MAP UNITS

- Qal Alluvium
- QTgr Quartz conglomerate, weathered
- QTqw Colluvium
- Tls Landslides, undifferentiated
- Tbp Bannock Pass beds
- Tec Everson Creek beds, undifferentiated
- Teqc Quartzite conglomerate of the Everson Creek beds
- Teca Sandstone unit of the Everson Creek beds
- Teco Conglomeratic unit of the Everson Creek beds
- Tba Basalt
- Tgb Gabbroic dikes and sills
- CZq White quartzite—Shown only in cross-section B-B'
- CZYq Red medium-grained quartzite
- CZYgr Gray medium-grained quartzite
- Ysmc Multi-colored quartzite of the Swauger Formation
- Ysw White quartzite of the Swauger Formation
- Xgbd Gneiss of Bloody Dick Creek

For a more detailed description of the map units and symbols, please refer to the text accompanying this map.

CORRELATION DIAGRAM



MAP SYMBOLS

- Contact: dashed where approximately located
- Fault: dashed where approximate, dotted where concealed, bar and ball on downthrown side
- Reverse or thrust fault: teeth on upthrown block
- Strike and dip of inclined beds
- Horizontal beds
- Foliation
- Vertical foliation
- Strike and dip of joints
- Strike of vertical joints
- Strike and dip of cleavage
- Gabbroic dikes and sills (Tgb)
- Sample site

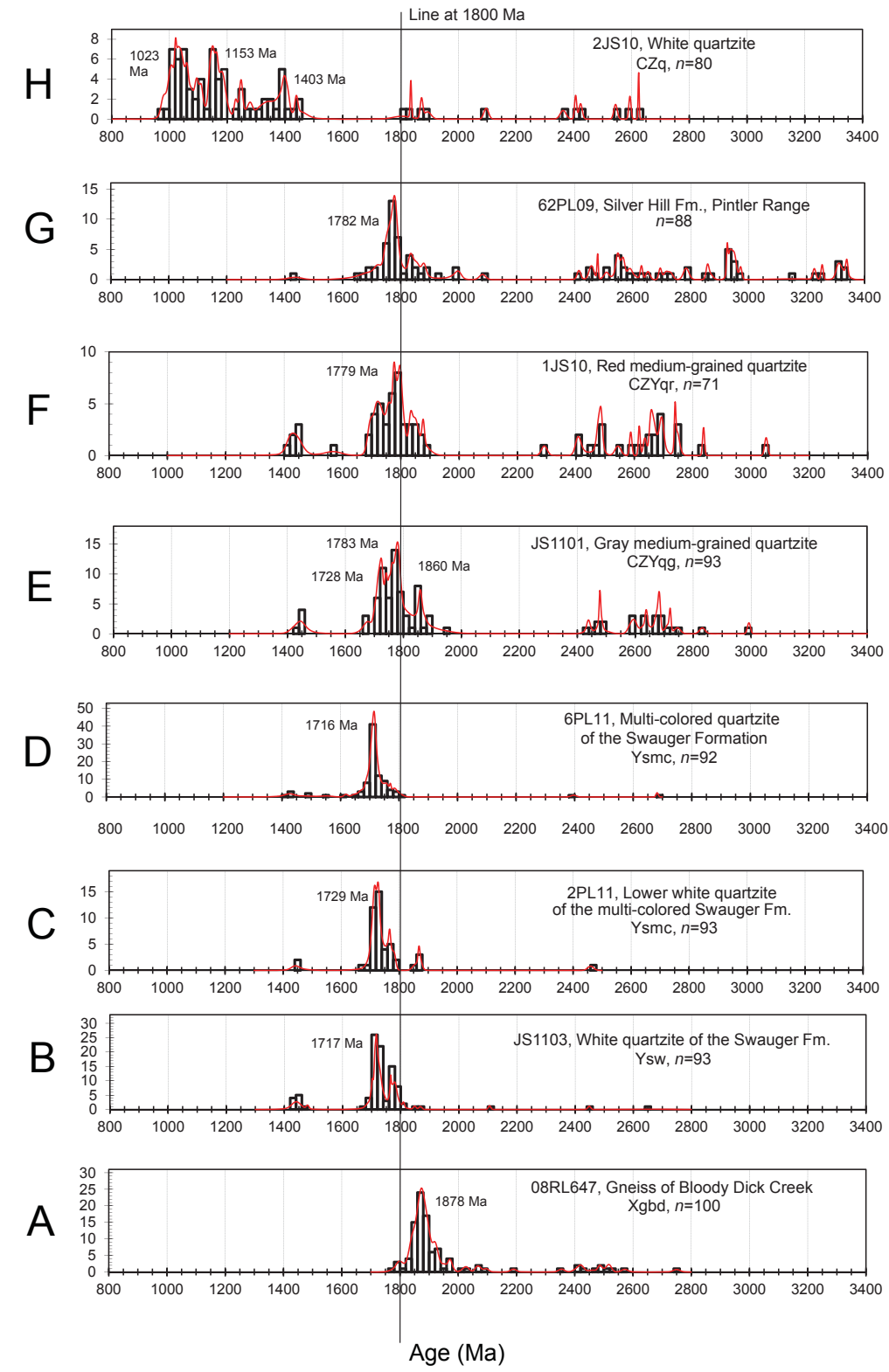


Figure 1. U-Pb detrital zircon probability density spectra.

Table 1. Locations of fossil and detrital zircon samples

Sample ID	Fig. 1 Spectra ID	Map Unit	Latitude NAD83	Longitude WGS84	Township, Range, and Section	Quadrangle	Notes
2JS10	H	CZq	45.089583	113.258850	SE1/4 sec. 36, T. 8 S., R. 14 W.	Coyote Creek, NE corner	
1JS10	F	CZYq	45.089583	113.258850	SE1/4 sec. 36, T. 8 S., R. 14 W.	Coyote Creek, NE corner	
JS1101	E	CZYq	45.00667	113.365800	NW1/4 sec. 31, T. 9 S., R. 14 W.	Coyote Creek, SW corner	
6PL11	D	Ysmc	45.102117	113.258850	NW1/4 sec. 24, T. 8 S., R. 14 W.	Coyote Creek, NE corner	
2PL11	C	Ysw	45.089583	113.258850	SE1/4 sec. 36, T. 8 S., R. 14 W.	Coyote Creek, NE corner	
JS1103	B	Ysw	45.014117	113.346633	NE1/4 sec. 32, T. 9 S., R. 14 W.	Coyote Creek, SW corner	
08RL647	A	Xgbd	44.9943	113.3387	NW1/4 sec. 4, T. 10 S., R. 14 W.	Everson Creek, NW corner	See Figure 2
Fossil beaver jaw	Not applicable	Tec	45.010083	113.3174	SE1/4 sec. 33, T. 9 S., R. 14 W.	Coyote Creek, south central	See Figure 3
62PL09	G	Not applicable	45.034417	113.400639	SE1/4 sec. 1, T. 3 N., R. 15 W.	Camp Ridge, southeast	See Figure 3

* Datum for sample 62PL09 is NAD83; all other samples are NAD27

Table 2. Feldspar count results

Unit	No. of Samples	K-feldspar %		Plagioclase %		Total Feldspar %	
		Range	Average	Range	Average	Range	Average
CZq	1	—	20	—	3	—	23
CZYq	1	—	11	—	13	—	24
CZYgr	1	—	23	—	3	—	26
Ysmc	4	12–25	19	3–10	6	15–27	22
Ysw	2	30	30	0–8	4	30–38	34

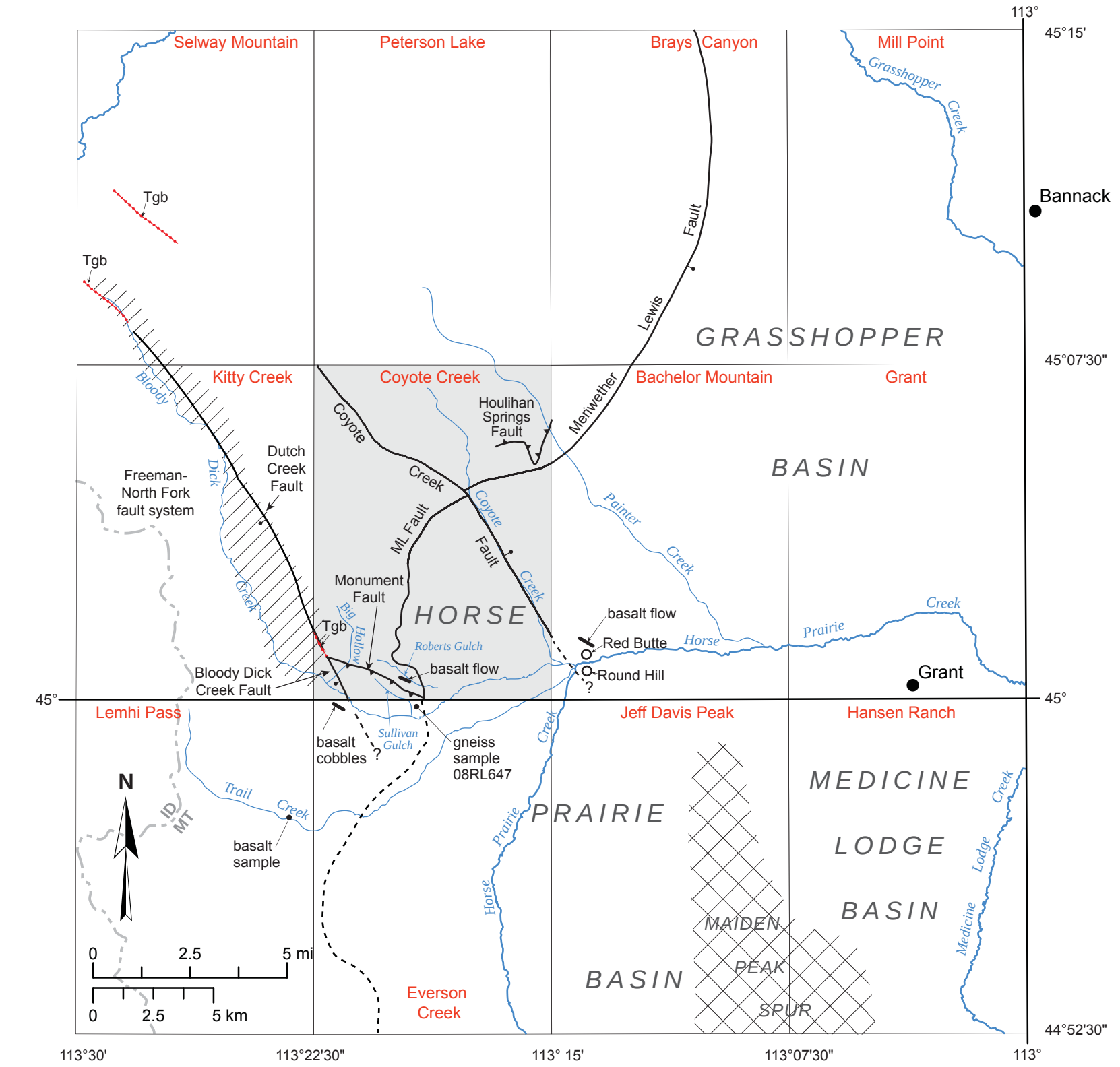


Figure 2. Index map of 7.5' quadrangles and location of regional features. Tgb, gabbroic dikes. ML, Meriwether Lewis fault.

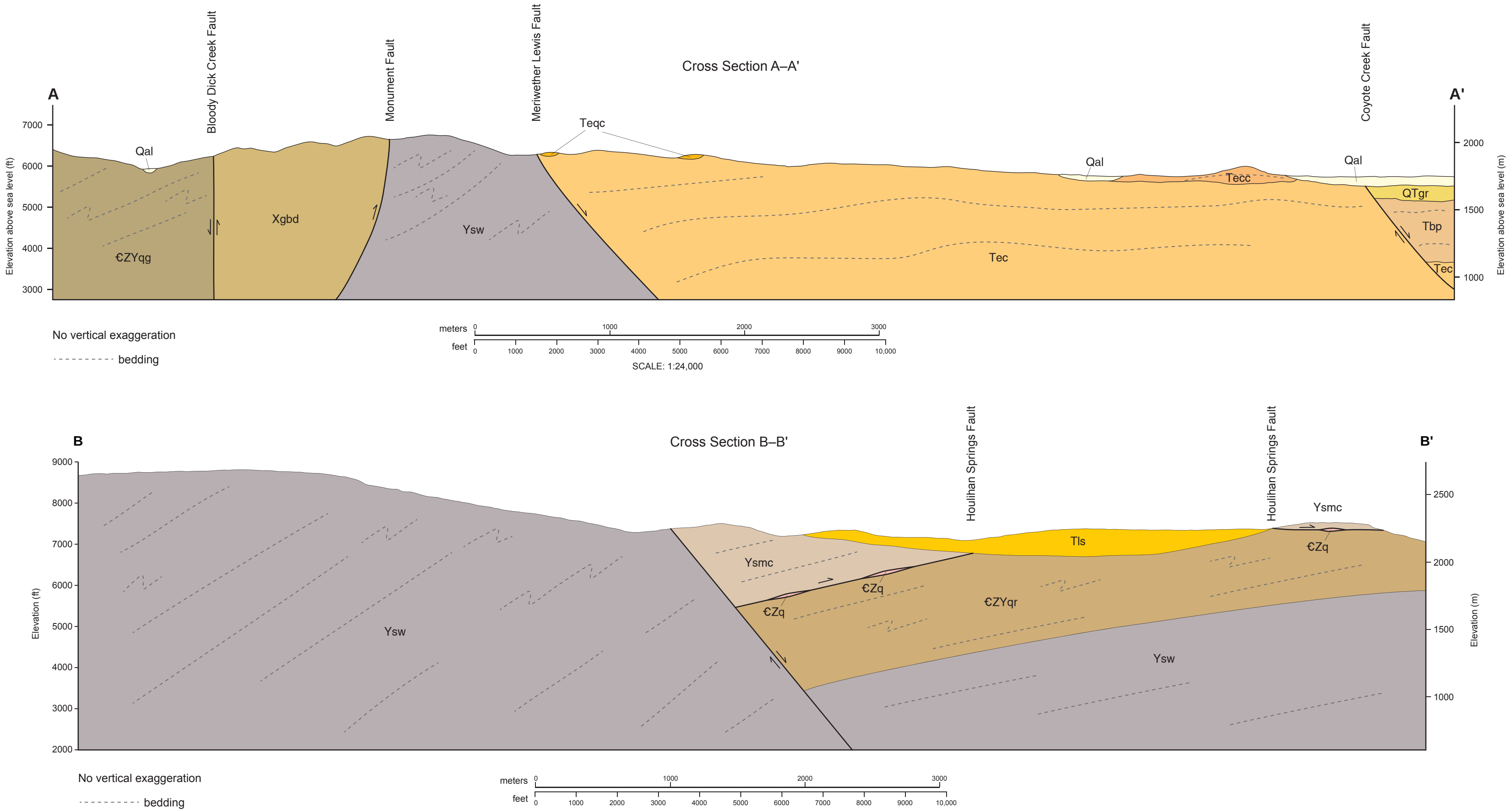


Figure 3. Location map.



MBMG Geologic Map 67

Geologic Map of the Coyote Creek 7.5' Quadrangle, Southwestern Montana

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