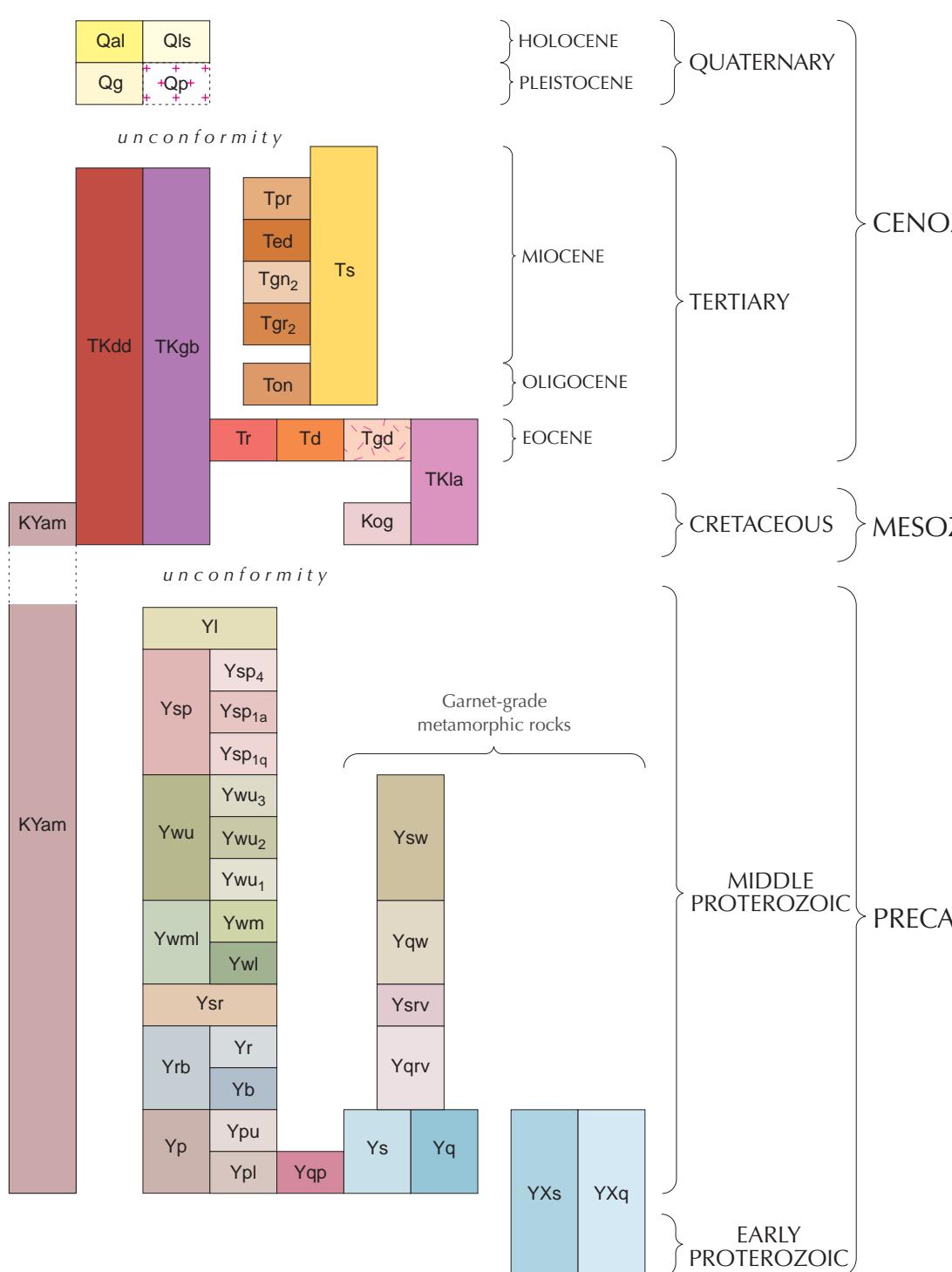


## CORRELATION OF MAP UNITS



UTM grid and 1984 magnetic  
declination at center of map

# GEOLOGIC MAP OF THE ST. MARIES 30 X 60 MINUTE QUADRANGLE, IDAHO

Compiled and mapped by Reed S. Lewis, Russell F. Burmester, John D. Kauffman, and Thomas P. Frost  
2009

2000

## MAP UNIT

UNCONSOLIDATED DEPC

INTRUSIVE ROCK

**INTRUSIVE ROCKS**

Tr	Rhyolite dikes (Eocene)
Td	Dacite dikes (Eocene)
Tgd	Biotite granodiorite and hornblende-biotite granodiorite (Eocene)
TKdd	Diabase and diorite dikes (Tertiary or Cretaceous)
TKla	Lamprophyre dikes (Tertiary or Cretaceous)
TKgb	Gabbro (Tertiary or Cretaceous)
Kog	Orthogneiss (Cretaceous)
KYam	Amphibolite (Cretaceous or Proterozoic)

**BELT SUPERGROUP**

YI	Libby Formation (Middle Proterozoic)
Ysp	Striped Peak Formation, undivided (Middle Proterozoic)
Ysp <sub>4</sub>	Striped Peak Formation, member four (Middle Proterozoic)
Ysp <sub>1a</sub>	Striped Peak Formation, argillitic part of member one (Middle Proterozoic)
Ysp <sub>1q</sub>	Striped Peak Formation, quartzitic part of member one (Middle Proterozoic)
Ywu	Wallace Formation, upper member, undivided (Middle Proterozoic)

**Ravalli Group**

Ywu <sub>3</sub>	Wallace Formation, upper member three (Middle Proterozoic)
Ywu <sub>2</sub>	Wallace Formation, upper member two (Middle Proterozoic)
Ywu <sub>1</sub>	Wallace Formation, upper member one (Middle Proterozoic)
Ywm <sub>1</sub>	Wallace Formation, middle and lower members, undivided (Middle Proterozoic)
Ywm	Wallace Formation, middle member (Middle Proterozoic)
Ywl	Wallace Formation, lower member (Middle Proterozoic)
Ysw	Schist and phyllite of the Wallace Formation (Middle Proterozoic)
Yqw	Quartzite of the Wallace Formation (Middle Proterozoic)
Ysr	St. Regis Formation (Middle Proterozoic)
Ysr <sub>v</sub>	Schist of the Ravalli Group (Middle Proterozoic)
Yrb	Revett and Burke Formations, undivided (Middle Proterozoic)
Yr	Revett Formation (Middle Proterozoic)
Yb	Burke Formation (Middle Proterozoic)
Yqr <sub>v</sub>	Quartzite of the Ravalli Group, undivided (Middle Proterozoic)
Yp	Prichard Formation, undivided (Middle Proterozoic)
Ypu	Prichard Formation, upper part (Middle Proterozoic)
Ypl	Prichard Formation, lower part (Middle Proterozoic)
Yq	Quartzite of the Prichard Formation (Middle Proterozoic)

## BELT SUPERGROUP OR PRE-BELT METAMORPHIC ROCKS

Yq	Quartzite (Middle Proterozoic)
Ys	Schist (Middle Proterozoic)
YXs	Schist of the Priest River metamorphic complex (Proterozoic)
YXq	Quartzite of the Priest River metamorphic complex (Proterozoic)

## MAP SYMBOLS

-  Contact: dashed where approximately located; dotted where concealed

 High-angle fault: dashed where approximately located; dotted where concealed

 Normal fault: dashed where approximately located; dotted where concealed; ball and bar on downthrown side

 Detachment fault: dashed where approximately located; dotted where concealed; hachures on downthrown side

 Strike-slip fault: dashed where approximately located; dotted where concealed; T (toward) and A (away) indicate sense of movement in cross sections

 Thrust fault: dashed where approximately located; dotted where concealed; teeth on upper plate; includes steep (reverse) faults

 Fold axis: dotted where concealed; arrow indicates plunge direction

 Syncline

 Anticline

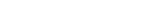
 Overturned syncline

 Overturned anticline

 Bearing and plunge of crenulation lineation

 Bearing and plunge of lineation in L tectonite

 Bearing and plunge of small fold axis

 Bearing and plunge of asymmetrical small fold showing counterclockwise rotation viewed down plunge

 Bearing and plunge of asymmetrical small fold showing clockwise rotation viewed down plunge

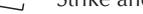
 Strike and dip of fracture cleavage

 Strike of vertical fracture cleavage

 Garnet isograd: garnets present on “garnet in” side of line; concealed by post-Cretaceous rock

 Bedded massive sulfide (pyrrhotite)

 Vein

 Sample location

