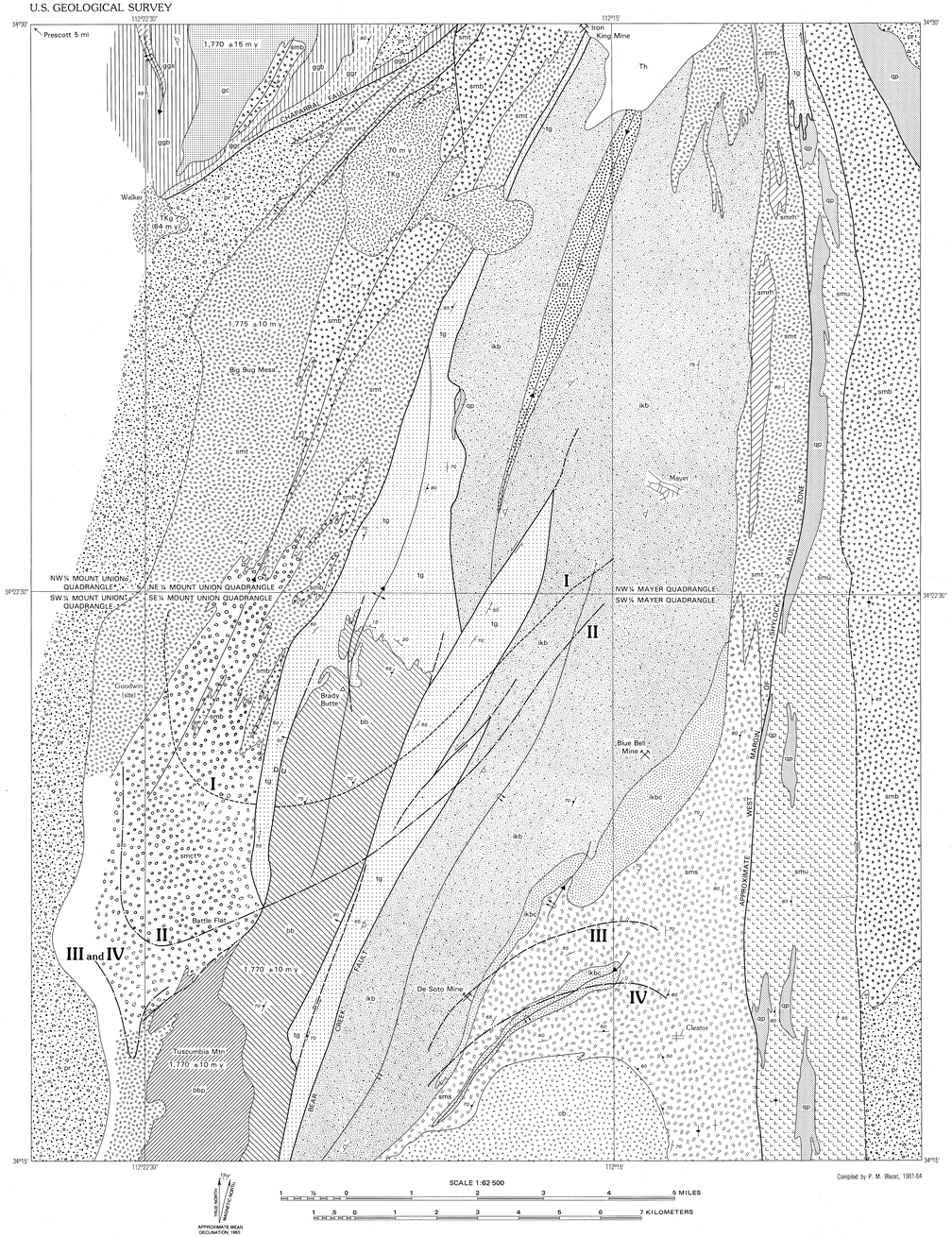
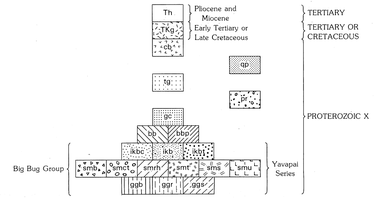


GENERALIZED MAP OF THE STRUCTURE AND METAMORPHISM OF THE PROTEROZOIC TERRANE IN THE NORTHERN BRADSHAW MOUNTAINS, ARIZONA

EXPLANATION FOR NORTHERN BRADSHAW MOUNTAINS

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- **Th** — HICKEY FORMATION (Pliocene and Miocene)—Basaltic flows and conglomerate
- **TKg** — GRANODIORITE (early Tertiary or Late Cretaceous)
- **cb** — CRAZY BASIN QUARTZ MONZONITE (Proterozoic X)
- **qp** — QUARTZ PORPHYRY (Proterozoic X)—Age uncertain; largely in Shylock fault zone
- **tg** — TEXAS GULCH FORMATION (Proterozoic X)
- **pr** — PLUTONIC ROCKS (Proterozoic X)—Medium- to coarse-grained, undifferentiated
- **gc** — GOVERNMENT CANYON GRANODIORITE (Proterozoic X)
- **bb** — BRADY BUTTE GRANODIORITE (Proterozoic X)
  - **bbp** — Porphyritic facies
- BIG BUG GROUP (Proterozoic X)—Consists of:
  - IRON KING VOLCANICS
    - **ikbc** — Mafic flows with inclusions
    - **ikb** — Basaltic flows
    - **wbj** — Andesitic-rhyolitic rocks
  - SPUD MOUNTAIN VOLCANICS
    - **smb** — Andesitic breccia
    - **smct** — Crystal tuff
    - **smth** — Rhyolitic rocks
    - **smt** — Andesitic tuffaceous rocks
    - **sms** — Sedimentary rocks
    - **smu** — Undifferentiated Spud Mountain Volcanics in Shylock fault zone
  - GREEN GULCH VOLCANICS
    - **ggb** — Basaltic flows
    - **ggr** — Rhyolitic flows and tuffs
    - **ggs** — Slate

CONTACT—Dashed where approximately located; queried where uncertain

FAULT—Dashed where approximately located; short-dashed where inferred; dotted where concealed; queried where uncertain. Arrows indicate direction of relative movement; arrow and number show direction and amount of dip. U, upthrown side; D, downthrown side

FOLD—Showing trace of axial plane, direction of plunge, and direction of dip of limbs. Queried where uncertain

- Anticline
- Overturned anticline
- Overturned syncline

STRIKE AND DIP OF BEDDING—Ball indicates top of bed determined

- Inclined
- Vertical
- Overturned

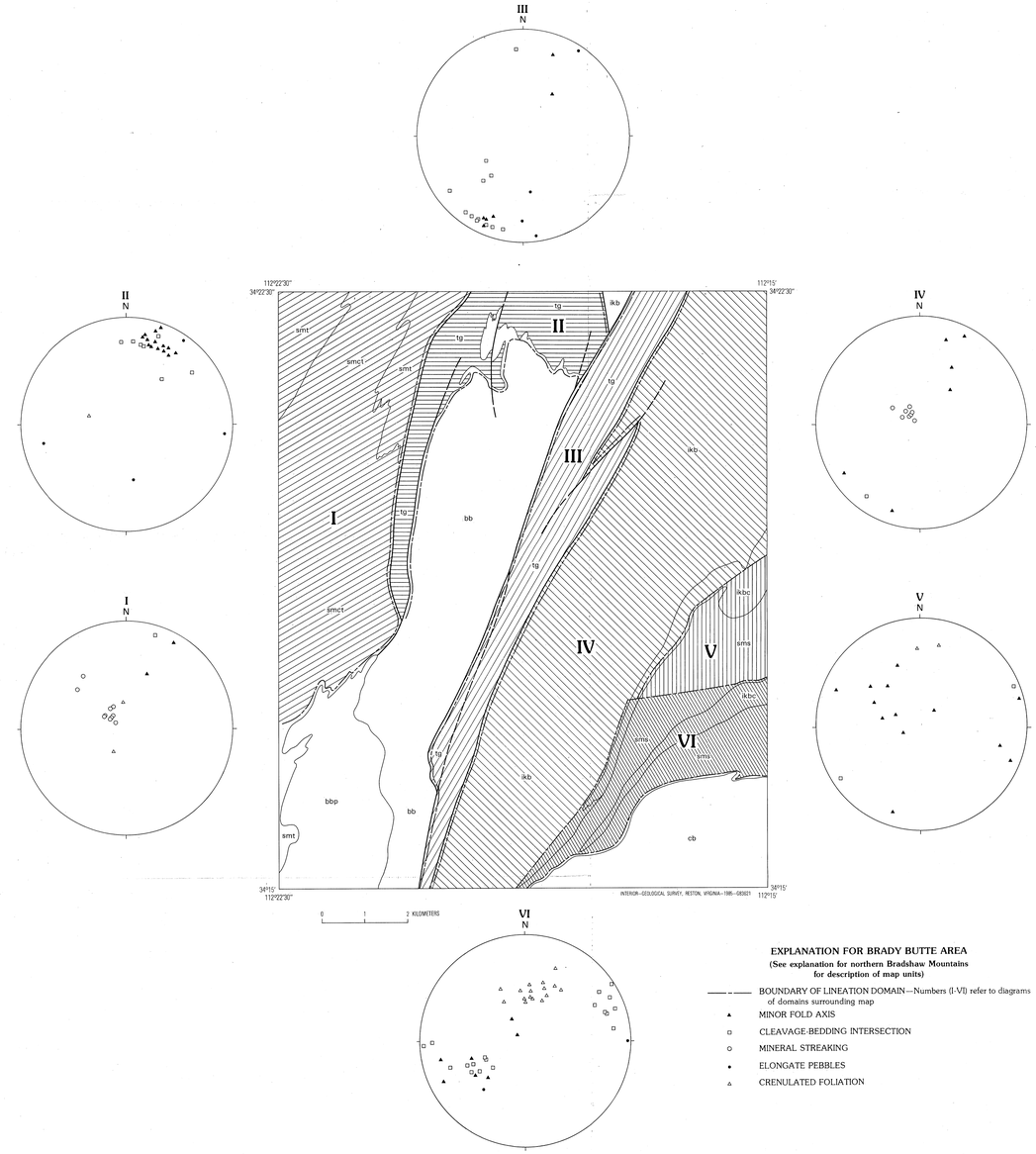
STRIKE AND DIP OF FOLIATION

- Inclined
- Vertical

PILLOW STRUCTURE—Top faces semicircle

ISOGRADS

- I — Albite-chlorite-epidote
- II — Blue-green hornblende
- III — Plagioclase (anorthite >15)
- IV — Staurolite and andalusite



EXPLANATION FOR BRADY BUTTE AREA

(See explanation for northern Bradshaw Mountains for description of map units)

- BOUNDARY OF LINEATION DOMAIN—Numbers (I-VI) refer to diagrams of domains surrounding map
- ▲ MINOR FOLD AXIS
- □ CLEAVAGE-BEDDING INTERSECTION
- ○ MINERAL STREAKING
- • ELONGATE PEBBLES
- △ CRENULATED FOLIATION

LINEATION MAP OF THE BRADY BUTTE AREA, ARIZONA

GENERALIZED GEOLOGY AND STRUCTURE OF BRADY BUTTE AND SURROUNDING AREA, ARIZONA