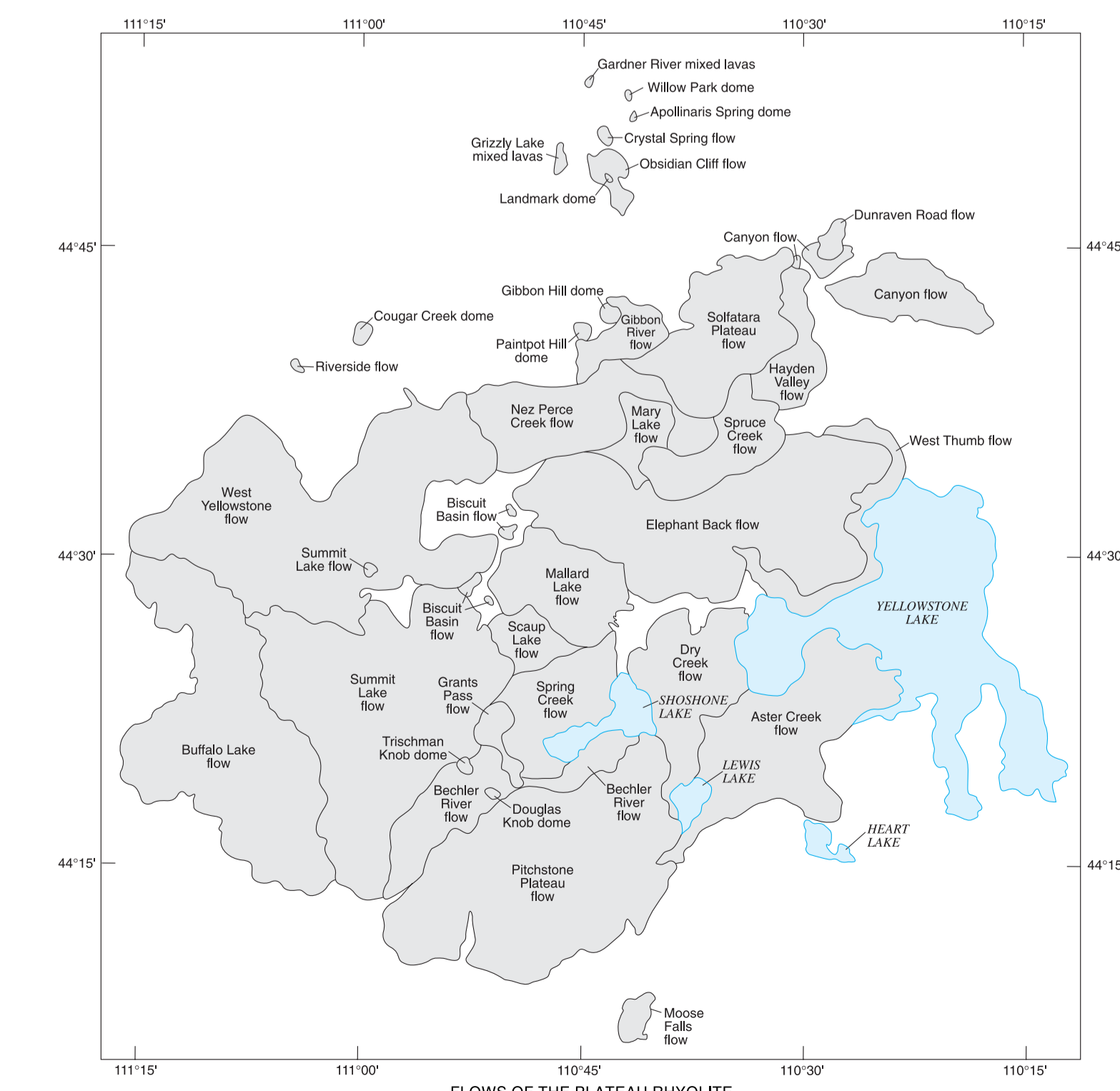
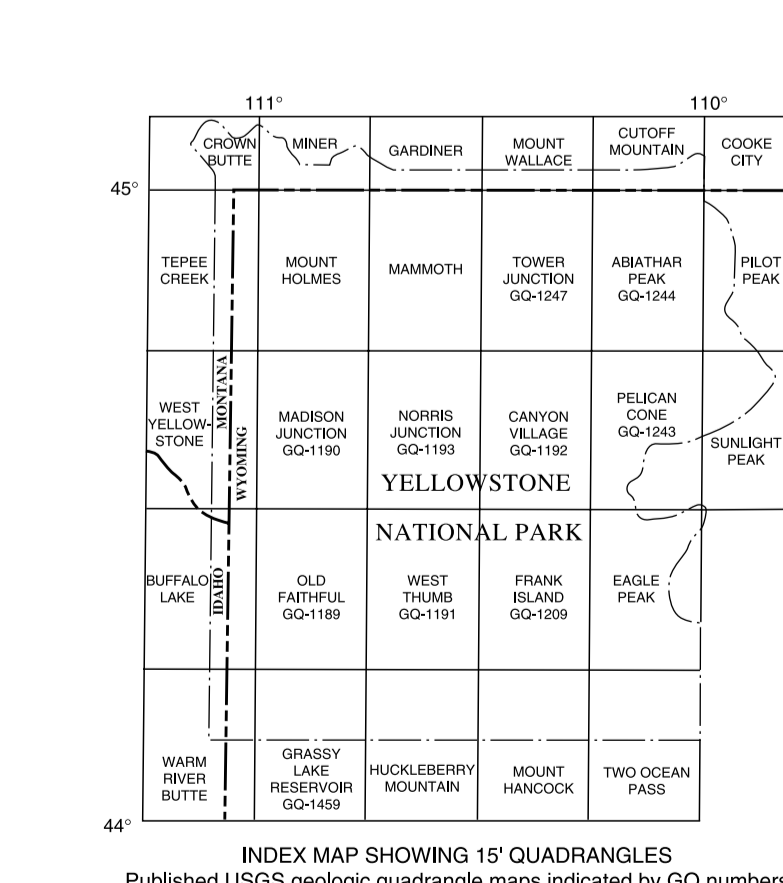


- LIST OF MAP UNITS**
[See text for complete description of map units]
- Surficial deposits (Holocene and Pleistocene)**—Age ranges of individual units overlap
- Qa Alluvial deposits
 - Qch Hot-spring deposits
 - Qcl Concentric lacustrine deposits localized by hot springs
 - Qth Hydrothermal-explosion deposits
- Plateau Rhyolite (Pleistocene)**
- Qp Central Plateau Member
 - Qp1 Pictochone Plateau flow
 - Qp2 Grants Pass flow
 - Qp3 Moose Falls flow
 - Qp4 West Yellowstone flow
 - Qp5 Trichman Knob dome
 - Qp6 Douglas Knob dome
 - Qp7 Tuff of Cold Mountain Creek
 - Qp8 Solitara Plateau flow
 - Qp9 Hayden Valley flow
 - Qp10 Becker River flow
 - Qp11 Summit Lake flow
 - Qp12 Buffalo Lake flow
 - Qp13 Spring Creek flow
 - Qp14 New Perce Creek flow
 - Qp15 Spruce Creek flow
 - Qp16 Elephant Rock flow
 - Qp17 West Thumb flow
 - Qp18 Aster Creek flow
 - Qp19 Tuff of Bluff Point
 - Qp20 Mary Lake flow
 - Qp21 Dry Creek flow
 - Qp22 Roaring Mountain Member
 - Qp23 Crystal Spring flow
 - Qp24 Gibbon River flow
 - Qp25 Obidiah Cliff flow
 - Qp26 Cougar Creek dome
 - Qp27 Riverside flow
 - Qp28 Mallard Lake Member
 - Qp29 Mallard Lake flow
 - Qp30 Obidiah Creek Member
 - Qp31 Gibbon Hill dome
 - Qp32 Painted Hill dome
 - Qp33 Willow Park dome
 - Qp34 Apollinaris Spring dome
 - Qp35 Landmark dome
 - Qp36 Rhyolite-basalt mixed lavas of Gardner River
 - Qp37 Rhyolite-basalt mixed lavas of Grizzly Lake
 - Qp38 Upper Basin Member
 - Qp39 Scapp Lake flow
 - Qp40 Biscuit Basin flow
 - Qp41 Dunraven Road flow
 - Qp42 Canyon flow
 - Qp43 Tuff of Sulphur Creek
 - Qp44 Tuff of Uncle Tom's Trail
 - Qp45 Garritt Basalt (Pleistocene)
 - Qp46 Opepy Basalt (Pleistocene)—Includes some gravel
- Madison River Basalt (Pleistocene)**
- Qm1 Madison River Basalt (Pleistocene)
 - Qm2 Member B
 - Qm3 Member A
 - Qm4 Uncle John's Rhyolite (Pleistocene)—Includes some gravel
 - Qm5 Mount Hayes flow
 - Qm6 Big Bear Lake flow
 - Qm7 Harlequin Lake flow
 - Qm8 Flat Mountain flow
 - Qm9 Wapiti Lake flow
 - Qm10 Moose Creek Butte flow
 - Qm11 Lewis Canyon Rhyolite (Pleistocene)
 - Qm12 Basalt of Warm River (Pleistocene)
 - Qm13 Island Park Rhyolite (Pleistocene)
 - Qm14 Warm River Butte dome
 - Qm15 Mesa Falls Tuff (Pleistocene)
 - Qm16 Sediments and basalts of The Narrows (Pleistocene)
 - Qm17 Huckleberry Ridge Tuff (Pleistocene)
 - Qm18 Member C
 - Qm19 Member B
 - Qm20 Member A
 - Qm21 Junction Butte Basalt (Pleistocene)—Includes some gravel
 - Qm22 Conant Creek Tuff and tuff of Kilgore (Pleistocene)
 - Qm23 Gravel of Mount Everts (Pleistocene)
 - Qm24 Heart Lake Conglomerate (Pleistocene)
 - Qm25 Intrusive rocks (Tertiary)
 - Qm26 Volcanic rocks (Tertiary)
 - Qm27 Sedimentary rocks (Paleocene and Mesozoic)
 - Qm28 Sedimentary rocks (Paleozoic)
 - Qm29 Metamorphic rocks (Precambrian)
- Geological Symbols**
- Contact—Dashed where concealed
 - Lava-flow front—Inclines on side of younger flow, dotted where concealed
 - Lava-flow fan lines
 - Faults—Dashed where concealed
 - Normal—Bar and ball on downthrown side
 - Reverse—Trench on overriding block
 - Reverse (with later normal movement)—Trench on overriding block of reverse fault, bar and ball on downthrown side of normal fault
 - Low angle fault—Sawtooth on upper plate
 - Inclined—Angle of dip shows where known
 - Horizontal
 - Overturned—Angle of dip shows where known
 - Area of hydrothermal acid alteration
 - Volcanic vent
 - Locality of analysed sample—See table 4
 - Drill hole locality



GEOLOGIC MAP OF THE YELLOWSTONE PLATEAU AREA
By Robert L. Christiansen 2001