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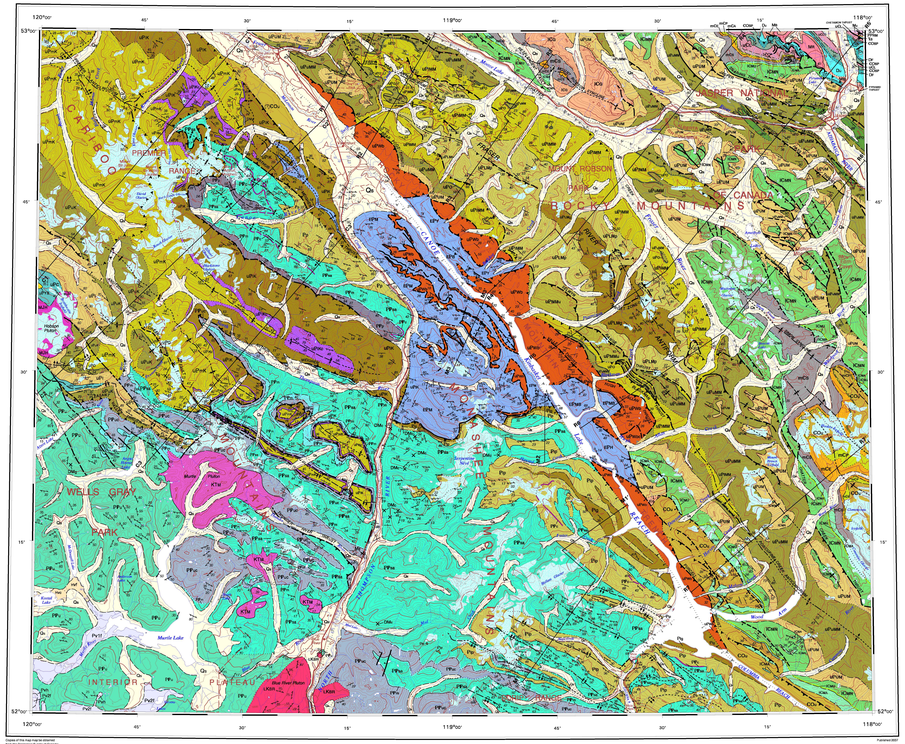
GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA



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LOCATION MAP

Author: D.C. Murphy (comp.)

Geological compilation by D.C. Murphy (1990–1991), Geological Survey of Canada; currently with Yukon Geological Survey, Whitehorse, Yukon

Digital cartography by C.L. Wagner, Data Dissemination Division (GSC)

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

MAP 2110A

GEOLOGY

CANOE RIVER

BRITISH COLUMBIA–ALBERTA

Scale 1:250 000/Échelle 1/250 000

kilometres 5 0 5 10 15 20 30 kilomètres

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transverse universelle de Mercator
Système de référence géodésique nord-américain, 1983
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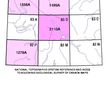
Digital base map from data compiled by Geomatics Canada, modified by GSC

Mean magnetic declination 2007, 19°01'E, decreasing 15.5' annually. Readings vary from 17°53'E in the SE corner to 19°51'E in the NW corner of the map.

Elevations in feet above mean sea level
Contour interval 500 feet



METRIC/SI, TOPOGRAPHIC AND GEOLOGICAL MAPS OF THE CANADIAN GEOLOGICAL SURVEY OF CANADA (NTS)

LEGEND

CARIBOO AND MONASHEE MOUNTAINS

QUATERNARY

Qa — Undifferentiated unconsolidated sand, silt, clay, gravel, till, and colluvium.

HOLOCENE

Hw|Hsf — *Basalt: inc, conv; invf, flow.*

PLEISTOCENE

Pv1|Pv2|Pvs — *Basalt; Pv1, CLEARWATER UNIT, flow; Pv2?, WELLS GRAY UNIT, flow; Pvh, hyaloclastite.*

TERTIARY

MIOCENE

Mk — *Lacustrine silt and clay.*

INTRUSIVE ROCKS

CRETACEOUS-(?)TERTIARY

KTM — *MURTLE PLUTON: muscovite-biotite granite and quartz monzonite.*

LATE CRETACEOUS

LKBR — *BLUE RIVER PLUTON: weakly-foliated muscovite (rarely biotite) granitic (59 ± 6 Ma, G.C. Murphy and R.R. Parrish (unpub. data, 1992)).*

JURASSIC

MIDDLE JURASSIC

MJH — *ROBSON PLUTON (191 ± 5 Ma, Gerasimoff (1988)): biotite granodiorite, minor hornblende-biotite granodiorite, quartz-diorite, and dioritе.*

TRIASSIC

Tg — *Small foliated stocks, sills, and dykes of granite in northeastern Wells Gray Park; age approximately 235 Ma (Murphy et al., 1995).*

DEVONIAN-MISSISSIPPIAN

DMb — *Small foliated bodies of granite to diorite in Premier Range; age approximately 350 Ma (L.C. Struik and R.R. Parrish, unpub. data, 1988 and D.C. Murphy, unpub. data, 1995).*

DMc — Carbonatite.

CYGAMBRIAN-(?)ORDOVICIAN

(?)COu — *Foliated white and grey, micaceous, locally graphitic, talc- and tremolite-bearing marble and other pelitic calc-silicate rocks found in Rocky Mountain Trench. Age unknown, but presumed to be equivalent to unit COu of Rocky Mountains.*

PROTEROZOIC

UPPER PROTEROZOIC

WINDERMERE SUPERGROUP

CARIBOO GROUP

uPYB — *HAMILL BELLE FORMATION: green and grey grey shale and siltstone, minor quartzite and limestone.*

uPC — *CUNNINGHAM FORMATION: grey limestone, minor shale and siltstone.*

uPI — *ISAAC FORMATION: dark phyllite, slate, limy phyllite, locally important limestone and limestone pebble conglomerate; quartz-pebble conglomerate and grit at base.*

uPKK — *KAZA GROUP*
UPPER KAZA GROUP: commonly graded and locally crossbedded quartzofeldspathic metasandstone, granule- and pebble-conglomerate (grit); minor green-grey silty phyllite and slate; calcareous grit at basal contact with unit uPI.

uPJ — *OLD FORT POINT FORMATION: mix of upper carbonaceous and pyritic phyllite or slate, middle (light to dark grey-brown) limy phyllite and fine-bedded marble, and basal green quartz metasiltstone and fine-grained metasandstone with thin (up to 10 cm) carbonaceous interbeds; transitional calcareous strata.*

uPMK — *MIDDLE KAZA GROUP: commonly graded and locally crossbedded quartzofeldspathic metasandstone, granule- and pebble-conglomerate (grit); green-grey silty slate, phyllite, or schist.*

uPKC — *LOWER KAZA GROUP CARBONATE UNIT: cycles of quartzofeldspathic grit or metasandstone, phyllite, or schist, culminating in clastic grey to brown marble up to 5 m thick; unit thins to west to zero and is overlain by grey to brown marble between the pelite-rich Lower Kaza Group and the metasandstone and grit-dominated Middle Kaza Group.*

uPK — *LOWER KAZA GROUP: pelitic (biotite-muscovite-garnet-staurolite-kyanite) schist locally carbonaceous, psammite and grit; lesser orthoamphibolite, marble, and calc-silicate rock; diamictite, conglomerate, grit, and psammite at base, crossbedded and locally channelled; thin limestone (locally dolomitic) and basal conglomeratic rhythmites equivalent to units uPKg and uPJ.*

uPMs — *Undifferentiated basal Windermere Supergroup (structurally interleaved with orthogneiss of Mount Grosse Complex): grit and locally conglomeratic or diamictite, locally-mylonitic quartzite at base; kyanite-, garnet-, staurolite-, biotite-, and/or muscovite-bearing pelitic phyllite or schist; psammite, and more rarely marble and calc-silicate rock above coarse clastic section at base.*

EARLY PROTEROZOIC

EPG, EPG, EPG — *KPN GOLD CREEK GNEISS (ca. 2.1 Ga, Murphy et al. (1991)): quartz diorite orthogneiss in southern Shuswap Metamorphic Complex; KPN MKI CON GNEISS COMPLEX: undifferentiated foliated granitic gneiss-augen orthogneiss (ca. 2 Ga, McDonough and Parrish (1992)), mafic orthogneiss, and paragneiss in northern Monashee Mountains.*

KOOTENAY TERRANE

PROTEROZOIC AND (?)PALEOZOIC

PPz — *Undifferentiated metamorphic rocks of unknown, but probable Proterozoic and possibly Paleozoic age in the footwall of the Pleasant Valley Thrust.*

PPsc — *UPPER CLASTIC UNIT: quartzofeldspathic psammite and grit, pelitic schist (locally kyanite-, staurolite-, andalusite-, sillimanite-, garnet-, biotite-, and/or muscovite-bearing); minor amphibolite.*

PPp — *Grey-brown pelitic (muscovite-biotite-garnet-staurolite, kyanite) schist and lesser quartzofeldspathic psammite in immediate footwall of Sir Arthur Meighen Thrust between North Thompson and Canoe rivers. Inferred to correlate with locally important clastic member U unit PPw south of Thompson River (Pell and Simony, 1994).*

PPm — *MARBLE UNIT (Main Marble of Simony et al. (1965) and Raeside and Simony (1983); Middle Marble of Brown et al. (1978), Pell and Simony (1994) and Sevigny and Simony (1989)): Unit locally includes a discontinuous clastic member of pelitic, quartzofeldspathic psammite, and graphitic marble (Pell and Simony, 1994) inferred to correlate with unit PPc.*

PPc — *Conglomerate with clasts of marble, calc-silicate rock, quartzite and granite (ca. 1500 Ma, G.M. Ross, R.R. Parrish, and D.C. Murphy, unpub. data (1991)). Conglomerate occurs in unit PPw in Canoe Mountains and unit PPp in Monashee Mountains.*

PPw — *SIMPLISTE-AMPHIBOLITE UNIT: quartzose psammite, quartzofeldspathic psammite and grit, pelitic (biotite-muscovite-garnet-staurolite, kyanite, or sillimanite) schist, concordant and discordant amphibolite, and minor marble. In Monashee and Selkirk mountains, the lower contact of unit PPw is locally marked by marble.*

PROTEROZOIC

Pp — *Relatively dark, biotite-rich pelite (biotite-muscovite-garnet-staurolite-kyanite) schist and psammite with lesser grit; minor garnet-biotite amphibolite and calc-silicate rock. Possibly equivalent to unit Pw.*

Pw — *LOWER PELITE UNIT: pelitic schist, minor quartzofeldspathic psammite, and concordant and discordant amphibolite. Probably equivalent to upper part of units uPK and uPMs.*

Pg — *LOWER GRIT UNIT: quartzofeldspathic psammite and grit, and minor pelitic schist and amphibolite. Prominent diamictite bearing conglomeratic horizon locally present at base. Probably equivalent to lower part of units uPK and uPMs.*

ROCKY MOUNTAINS

QUATERNARY

Qa — *Undifferentiated unconsolidated sand, silt, clay, gravel, till, and colluvium.*

TRIASSIC

Ts — *SPRAY RIVER GROUP*
SULPHUR MOUNTAIN FORMATION: dark brown silty shale, siltstone, sandstone; minor calcareous sandstone.

PENNSYLVANIAN AND PERMIAN

PPRM — *ROCKY MOUNTAIN GROUP: light grey, chiefly sandstone, massive chert, dolomitic sandstone, and silty dolomite.*

MISSISSIPPIAN

M₂ — *Undifferentiated Rundle Group and Banff Formation.*

Mfr — *RUNDLE GROUP: grey dolostone, oolosilal limestone, and chert-y dolostone.*

Mtt — *BANFF FORMATION: argillaceous limestone, calcareous shale; at base, black, fissile, cherty shale and brown sandstone.*

DEVONIAN

Dv — *Undifferentiated Palliser and Sassenach formations: Palliser (upper unit): massive dolomitic limestone, Sassenach (lower unit): sandstone, siltstone, and silty limestone.*

FAITH-ELMS GROUP (basinal facies)

Df — *Undifferentiated Mount Hawk, Perdrix, and Flume formations: calcareous mudstone, argillaceous limestone, black shale, and cherty limestone.*

CAMBRIAN-ORDOVICIAN

COu — *Undifferentiated Cambrian or Cambrian-Ordovician limestone or marble.*

COSF — *SUNWAY PEAK FORMATION: calcareous shale, micritic limestone, and limestone pebble conglomerate.*

UPPER CAMBRIAN

uCL — *LYNX GROUP: dolostone, siltstone, and limestone.*

MIDDLE CAMBRIAN

mCA — *ARETE (CHIPP) FORMATION: rust and green shale; dolomitic siltstone and shaly dolostone.*

mCP — *PIKA FORMATION: limestone, limestone-pebble conglomerate, oolitic, minor shale and dolomite.*

mCE — *ELDON FORMATION: limestone, locally dolomitized.*

mCS — *SMART INDIAN FORMATION (includes undifferentiated Fabio, Chisholm, and Holmes formations mapped in north-central part of area): alternating units of limestone and calcareous shale, massive limestone at base locally (Holmes Formation).*

LOWER CAMBRIAN

ICG GROUP

ICGs — *Undifferentiated McNaughton, Mural, and Mahto formations.*

ICMA — *MAHTO FORMATION: fine-grained quartz sandstone and siltstone.*

ICMU — *MURAL FORMATION: limestone and dolostone with interbeds of shale and siltstone.*

ICMN — *MCNAUGHTON FORMATION: massive quartz sandstone and siltstone, and minor conglomeratic and pebbly.*

PROTEROZOIC

UPPER PROTEROZOIC

WINDERMERE SUPERGROUP

MEETTE GROUP

uPUM — *UPPER METTE GROUP: pelitic, locally calcareous argillite and mudstone; sandstone; locally includes carbonate accumulations (nodules) (Ilyng: Formation of Murphy (1992)).*

uPUMM — *UNDIFFERENTIATED MIDDLE METTE GROUP*

uPUMM — *UPPER MIDDLE METTE GROUP: commonly graded and locally crossbedded quartzofeldspathic metasandstone, granule- and pebble-conglomerate (grit); siltstone, grey-green silty phyllite, phyllite predominant in thrust sheets near Rocky Mountain Trench; base on unit uPG locally calcareous sandstone or limestone-clast conglomerate.*

uPG — *OLD FORT POINT FORMATION: bed of upper dark grey to black carbonaceous phyllite, middle dolomitic and calcareous siltstone and phyllite, and basal green quartzofeldspathic sandstone, siltstone, and phyllite; slate, and locally calcareous quartz siltstone.*

uPMM — *LOWER MEETTE GROUP: commonly graded and locally crossbedded quartzofeldspathic metasandstone, granule- and pebble-conglomerate (grit); siltstone, grey-green silty phyllite, and phyllite.*

uPLMu — *LOWER METTE GROUP phyllite: dark silty phyllite, minor quartz-pebble conglomerate.*

uPLMg — *LOWER METTE GROUP grit: quartzofeldspathic sandstone, grit, and minor phyllite.*

uPMs — *Undifferentiated basal Windermere Supergroup (overlying basement in hanging wall of Rocky Mountain Trench): grit and locally conglomeratic or diamictite, locally-mylonitic quartzite at base (uPMs); kyanite-, garnet-, staurolite-, biotite-, and/or muscovite-bearing pelitic phyllite or schist; psammite, and more rarely marble and calc-silicate rocks above coarse clastic section at base (uPMm); may be equivalent in part to units uPLMg and uPLMu.*

EARLY PROTEROZOIC

EP — *Undifferentiated gneiss (ages in Fig. 2): KPV YELLOWJACKET GNEISS (ca. 1.81 Ga, McDonough and Parrish (1992)): foliated and locally-crenulated granitic and granodioritic orthogneiss, locally with augen. KPN BILLEGOO GNEISS: quartzose granitic orthogneiss in Shuswap Metamorphic Complex; KPN MKI CON GNEISS COMPLEX: gneiss (McDonough and Parrish, 1992), minor amphibolite. UPNA MCKAY, BLACKMAN GNEISSES: amphibolite-mafic gneiss and granitic gneiss. KPn HUGH ALLAN GNEISS (ca. 750 Ma, McDonough and Parrish (1992)): granitic gneiss.*

Geological contact (defined, approximate, assumed)

Fault or shear zone, sense unknown (defined, approximate, assumed)

Dextral strike-slip fault, sense unknown (defined, approximate, assumed)

Thrust fault or shear zone (defined, approximate, assumed)

Dextral-thrust oblique slip fault or shear zone (defined, approximate, assumed)

Normal fault or shear zone (defined, approximate, assumed)

Dextral-normal oblique slip fault or shear zone (approximate, assumed)

Fault projected from beneath younger cover (sense unknown, normal)

Fault projected from beneath younger cover (thrust, dextral-thrust)

Upright anticline or antiform (approximate, assumed)

Upright synicline or synform (approximate, assumed)

Overturned anticline or antiform (approximate, assumed)

Overturned synicline or synform (approximate, assumed)

Strike and dip of bedding

Strike and dip of bedding, upright, top known

Strike and dip of bedding, overturned

Strike and dip of bedding, (overturned), top known

Strike and dip of prominent foliation

Dextral strike-slip fault, on cross sections only (displacement into section, out of section)

Line of cross-section C3 C3'

1. Murphy (1990)
2. Murphy (1995)
3. D.C. Murphy (unpub. mapping, 1990)
4. G.M. Ross (unpub. mapping, 1990)
5. D.C. Murphy (unpub. mapping, 1991)
6. Murphy (1992)
7. McDonough and Mountjoy (1990)
8. Dechesne and E.W. Mountjoy (unpub. mapping, 1992)
9. Dechesne and Murphy (1993)
10. Dechesne and Price (1994)
11. Dechesne (1992)
12. Forest (1993)
13. Forest, Kopp and Morrison (1992)
14. McDonough et al. (1991a)
15. Monrani (1992)
16. Ogle et al. (1993)
17. McDonough et al. (1991b)
18. Currie (1985)
19. Walker (1993)
20. Pell and Simony (1994)
21. Murphy (1987)
22. Struik (1988)
23. Struik (1993)
24. Campbell (1992)
25. Hickson (1988)
26. Dechesne (1990)
27. Sevigny and Simony (1990)
28. Ross (1991)
29. Robbins (1978)
30. Simony et al. (1965)
31. Mitchell (1978)
32. Perkins (1983)
33. Ross (1989)
34. Klein and Mountjoy (1988)
35. E.W. Mountjoy (unpub. mapping, 1991)
36. Mountjoy and Gradby (1991)
37. Mac Clague (1992)
38. Charland (1989)
39. Leonard (1985)

Figure 1. Sources of geological information (see References)

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1 Apple iPad Pro 52, 1 Apple iPad Pro 53, 1 Apple iPad Pro 54, 1 Apple iPad Pro 55, 1 Apple iPad Pro 56, 1 Apple iPad Pro 57, 1 Apple iPad Pro 58, 1 Apple iPad Pro 59, 1 Apple iPad Pro 60, 1 Apple iPad Pro 61, 1 Apple iPad Pro 62, 1 Apple iPad Pro 63, 1 Apple iPad Pro 64, 1 Apple iPad Pro 65, 1 Apple iPad Pro 66, 1 Apple iPad Pro 67, 1 Apple iPad Pro 68, 1 Apple iPad Pro 69, 1 Apple iPad Pro 70, 1 Apple iPad Pro 71, 1 Apple iPad Pro 72, 1 Apple iPad Pro 73, 1 Apple iPad Pro 74, 1 Apple iPad Pro 75, 1 Apple iPad Pro 76, 1 Apple iPad Pro 77, 1 Apple iPad Pro 78, 1 Apple iPad Pro 79, 1 Apple iPad Pro 80, 1 Apple iPad Pro 81, 1 Apple iPad Pro 82, 1 Apple iPad Pro 83, 1 Apple iPad Pro 84, 1 Apple iPad Pro 85, 1 Apple iPad Pro 86, 1 Apple iPad Pro 87, 1 Apple iPad Pro 88, 1 Apple iPad Pro 89, 1 Apple iPad Pro 90, 1 Apple iPad Pro 91, 1 Apple iPad Pro 92, 1 Apple iPad Pro 93, 1 Apple iPad Pro 94, 1 Apple iPad Pro 95, 1 Apple iPad Pro 96, 1 Apple iPad Pro 97, 1 Apple iPad Pro 98, 1 Apple iPad Pro 99, 1 Apple iPad Pro 100, 1 Apple iPad Pro 101, 1 Apple iPad Pro 102, 1 Apple iPad Pro 103, 1 Apple iPad Pro 104, 1 Apple iPad Pro 105, 1 Apple iPad Pro 106, 1 Apple iPad Pro 107, 1 Apple iPad Pro 108, 1 Apple iPad Pro 109, 1 Apple iPad Pro 110, 1 Apple iPad Pro 111, 1 Apple iPad Pro 112, 1 Apple iPad Pro 113, 1 Apple iPad Pro 114, 1 Apple iPad Pro 115, 1 Apple iPad Pro 116, 1 Apple iPad Pro 117, 1 Apple iPad Pro 118, 1 Apple iPad Pro 119, 1 Apple iPad Pro 120, 1 Apple iPad Pro 121, 1 Apple iPad Pro 122, 1 Apple iPad Pro 123, 1 Apple iPad Pro 124, 1 Apple iPad Pro 125, 1 Apple iPad Pro 126, 1 Apple iPad Pro 127, 1 Apple iPad Pro 128, 1 Apple iPad Pro 129, 1 Apple iPad Pro 130, 1 Apple iPad Pro 131, 1 Apple iPad Pro 132, 1 Apple iPad Pro 133, 1 Apple iPad Pro 134, 1 Apple iPad Pro 135, 1 Apple iPad Pro 136, 1 Apple iPad Pro 137, 1 Apple iPad Pro 138, 1 Apple iPad Pro 139, 1 Apple iPad Pro 140, 1 Apple iPad Pro 141, 1 Apple iPad Pro 142, 1 Apple iPad Pro 143, 1 Apple iPad Pro 144, 1 Apple iPad Pro 145, 1 Apple iPad Pro 146, 1 Apple iPad Pro 147, 1 Apple iPad Pro 148, 1 Apple iPad Pro 149, 1 Apple iPad Pro 150, 1 Apple iPad Pro 151, 1 Apple iPad Pro 152, 1 Apple iPad Pro 153, 1 Apple iPad Pro 154, 1 Apple iPad Pro 155, 1 Apple iPad Pro 156, 1 Apple iPad Pro 157, 1 Apple iPad Pro 158, 1 Apple iPad Pro 159, 1 Apple iPad Pro 160, 1 Apple iPad Pro 161, 1 Apple iPad Pro 162, 1 Apple iPad Pro 163, 1 Apple iPad Pro 164, 1 Apple iPad Pro 165, 1 Apple iPad Pro 166, 1 Apple iPad Pro 167, 1 Apple iPad Pro 168, 1 Apple iPad Pro 169, 1 Apple iPad Pro 170, 1 Apple iPad Pro 171, 1 Apple iPad Pro 172, 1 Apple iPad Pro 173, 1 Apple iPad Pro 174, 1 Apple iPad Pro 175, 1 Apple iPad Pro 176, 1 Apple iPad Pro 177, 1 Apple iPad Pro 178, 1 Apple iPad Pro 179, 1 Apple iPad Pro 180, 1 Apple iPad Pro 181, 1 Apple iPad Pro 182, 1 Apple iPad Pro 183, 1 Apple iPad Pro 184, 1 Apple iPad Pro 185, 1 Apple iPad Pro 186, 1 Apple iPad Pro 187, 1 Apple iPad Pro 188, 1 Apple iPad Pro 189, 1 Apple iPad Pro 190, 1 Apple iPad Pro 191, 1 Apple iPad Pro 192, 1 Apple iPad Pro 193, 1 Apple iPad Pro 194, 1 Apple iPad Pro 195, 1 Apple iPad Pro 196, 1 Apple iPad Pro 197, 1 Apple iPad Pro 198, 1 Apple iPad Pro 199, 1 Apple iPad Pro 200, 1 Apple iPad Pro 201, 1 Apple iPad Pro 202, 1 Apple iPad Pro 203, 1 Apple iPad Pro 204, 1 Apple iPad Pro 205, 1 Apple iPad Pro 206, 1 Apple iPad Pro 207, 1 Apple iPad Pro 208, 1 Apple iPad Pro 209, 1 Apple iPad Pro 210, 1 Apple iPad Pro 211, 1 Apple iPad Pro 212, 1 Apple iPad Pro 213, 1 Apple iPad Pro 214, 1 Apple iPad Pro 215, 1 Apple iPad Pro 216, 1 Apple iPad Pro 217, 1 Apple iPad Pro 218, 1 Apple iPad Pro 219, 1 Apple iPad Pro 220, 1 Apple iPad Pro 221, 1 Apple iPad Pro 222, 1 Apple iPad Pro 223, 1 Apple iPad Pro 224, 1 Apple iPad Pro 225, 1 Apple iPad Pro 226, 1 Apple iPad Pro 227, 1 Apple iPad Pro 228, 1 Apple iPad Pro 229, 1 Apple iPad Pro 230, 1 Apple iPad Pro 231, 1 Apple iPad Pro 232, 1 Apple iPad Pro 233, 1 Apple iPad Pro 234, 1 Apple iPad Pro 235, 1 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Pro 281, 1 Apple iPad Pro 282, 1 Apple iPad Pro 283, 1 Apple iPad Pro 284, 1 Apple iPad Pro 285, 1 Apple iPad Pro 286, 1 Apple iPad Pro 287, 1 Apple iPad Pro 288, 1 Apple iPad Pro 289, 1 Apple iPad Pro 290, 1 Apple iPad Pro 291, 1 Apple iPad Pro 292, 1 Apple iPad Pro 293, 1 Apple iPad Pro 294, 1 Apple iPad Pro 295, 1 Apple iPad Pro 296, 1 Apple iPad Pro 297, 1 Apple iPad Pro 298, 1 Apple iPad Pro 299, 1 Apple iPad Pro 300, 1 Apple iPad Pro 301, 1 Apple iPad Pro 302, 1 Apple iPad Pro 303, 1 Apple iPad Pro 304, 1 Apple iPad Pro 305, 1 Apple iPad Pro 306, 1 Apple iPad Pro 307, 1 Apple iPad Pro 308, 1 Apple iPad Pro 309, 1 Apple iPad Pro 310, 1 Apple iPad Pro 311, 1 Apple iP