

1. Change Log for Alberta Table of Formations (documenting changes to the 2015 version implemented in the 2019 version)

| Change Sequence Number | Change Description | Change Type | Time Scale Column | Geographic Area Columns | | | | | | | | | Side Bar | Change Date | References (see end of table for reference list) |
|------------------------|---|------------------------|-------------------|-------------------------|----------------|----------------------|----------------|----------|------------------|------------------|-----------|-----------|----------|-------------|--|
| | | | | All area columns | N Mtns & Fthls | Central Mtns & Fthls | S Mtns & Fthls | S Plains | W-Central Plains | E-Central Plains | NW Plains | NE Plains | | | |
| 1 | Adjusted top of the Cenomanian Pouce Coupe Member (Kaskapau Formation) in the northwest Plains area column to fall below the top of the Cenomanian Stage | Stratigraphic position | | | | | | | | | | x | | 1 May, 2019 | Stelck and Wall (1954), Wallace-Dudley and Leckie (1993), Bhattacharya (1994) |
| 2 | Added names of Induan (Lower Triassic) and Changhsingian stages (Permian) in the time scale column | Text addition | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 3 | Added numerical age of the base of the Lower Triassic Olenekian Stage (250 Ma) in the time scale column | Numerical age addition | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 4 | Changed numerical age of the base of the Wuchiapingian Age (Triassic Period) to 259 Ma in the time scale column | Numerical age change | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 5 | Changed numerical age of the base of the Roadian Age (Triassic Period) to 273 Ma in the time scale column | Numerical age change | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 6 | Changed numerical age of the base of the Sakmarian Stage (Triassic System) to 294 Ma in the time scale column | Numerical age change | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 7 | Added numerical ages of the base of the Devonian System (419 Ma) and the base of the Pragian Stage (411 Ma) in the time scale column | Numerical age addition | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 8 | Changed numerical age of the base of the Silurian System to 444 Ma in the time scale column | Numerical age change | x | | | | | | | | | | | 1 May, 2019 | Cohen et al. (2013 updated) |
| 9 | Added colours from the International Chronostratigraphic Chart to time scale column and changed sidebar text accordingly. Colouring follows the Commission for the Geological Map of the World | Presentation format | x | | | | | | | | | | x | 1 May, 2019 | Cohen et al. (2013 updated) |
| 10 | Changed colour in inset maps in geographic area header from bright green (RGB 0/255/89) to darker green (RGB 78/170/10) | Presentation format | | x | | | | | | | | | | 1 May, 2019 | not applicable |
| 11 | Changed colour of Albian Crowsnest Formation and Mesoproterozoic Purcell Lava in southern Mountains and Foothills area column to match with colour for volcanic and volcanoclastic rock in lithology legend (RGB 255/0/0) | Presentation format | | | | | x | | | | | | | 1 May, 2019 | not applicable |
| 12 | Lowered the top of the Givetian Slave Point Formation in the northwestern Plains area column to coincide with the top of the Givetian Stage | Stratigraphic position | | | | | | | | | | x | | 1 May, 2019 | Norris (1965), Braun et al. (1988), McLean and Klapper (1998), Campbell (1992) |

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| | | | | All area columns | N Mtns & Fthls | Central Mtns & Fthls | S Mtns & Fthls | S Plains | W-Central Plains | E-Central Plains | NW Plains | NE Plains | | | | |
| 13 | Added question mark to the lower part of the Muskwa Formation in the northwestern Plains area column to indicate uncertainty about the stratigraphic relationships between Muskwa and Waterways formations | Stratigraphic position | | | | | | | | | | x | | | 1 May, 2019 | Griffin (1965), Bassett and Stout (1967), Williams (1977), Schneider et al. (2013) |
| 14 | Raised the top of the Muskwa Formation in the northwestern Plains area column to be correlative to the top of the Duvernay Formation in the central and northeast Plains area columns | Stratigraphic position | | | | | | | | | | x | | | 1 May, 2019 | McLean and Klapper (1998), Pana et al. (2018) |
| 15 | Symbolized shale-out of Middle and Upper Cambrian carbonate units (i.e., Cathedral, Eldon, Pika, Waterfowl, and upper Lynx formations) in southern, east- and west-central Plains area columns by inclined lines (facies change) | Contact type | | | | | | x | x | x | | | | | 1 May, 2019 | Slind et al. (1994) |
| 16 | Adjusted Mount Whyte Formation / Cathedral Formation contact in the southern Plains and central Mountains and Foothills area columns to indicate lower Cathedral Formation shale-out (Gordon Formation) toward central Mountains and Foothills | Contact type | | | | x | | x | | | | | | | 1 May, 2019 | Norris and Price (1966), Slind et al. (1994) |
| 17 | Added formally proposed members of the Neoproterozoic Old Fort Point Formation (Temple Lake, Geikie Siding, and Whitehorn Mountain members) to the central and northern Mountains and Foothills area columns | Unit addition | | | x | x | | | | | | | | | 1 May, 2019 | Smith et al. (2014a) |
| 18 | Removed Neoproterozoic Hector and Corral Creek formations (Miette Group) from the northern Mountains and Foothills area column | Geographic extent | | | x | | | | | | | | | | 1 May, 2019 | Charlesworth (1967), Smith et al. (2014a,b), McMechan (2015) |
| 19 | Added Neoproterozoic Wynd Formation above the Old Fort Point Formation on the right side of northern Mountains and Foothills area column | Unit addition | | | x | | | | | | | | | | 1 May, 2019 | Charlesworth (1967), Smith et al. (2014a,b), McMechan (2015) |
| 20 | Added Neoproterozoic Meadow Creek Formation below the Old Fort Point Formation on the right side of northern Mountains and Foothills area column; added question mark at its base to indicate uncertainty about stratigraphic position | Unit addition | | | x | | | | | | | | | | 1 May, 2019 | Charlesworth (1967), Smith et al. (2014a,b), McMechan (2015) |
| 21 | Changed placement of the base of the Neoproterozoic Miette Group (base of Meadow Creek and Corral Creek formations) in the central and northern Mountains and Foothills area columns to fall into scale change area between 620 and 1000 Ma | Stratigraphic position | | | x | x | | | | | | | | | 1 May, 2019 | Evenchick et al. (1988), Parrish and Scammell (1988), McDonough et al. (1991), McMechan (2015) |

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| | | | | All area columns | N Mtns & Fthls | Central Mtns & Fthls | S Mtns & Fthls | S Plains | W-Central Plains | E-Central Plains | NW Plains | NE Plains | | | |
| 22 | Changed placement of the top of the Neoproterozoic Miette Group (top of Byng Formation and siliclastic strata) in the northern Mountains and Foothills area column to fall into scale change area between 590 and 550 Ma | Stratigraphic position | | | x | | | | | | | | | 1 May, 2019 | Colpron et al. (2002), McMechan (2015) |
| 23 | Replaced upper part of the 'siliclastic strata' unit on the left side of the northern Mountains and Foothills area column to East Twin Formation of which the lower part is correlative with the upper part of the Wynd Formation on the right side of the column | Unit addition | | | x | | | | | | | | | 1 May, 2019 | Hein and McMechan (1994), Pana and Elgr (2013), McMechan (2015) |
| 24 | Added McKale Formation to the left side of the northern Mountains and Foothills area column, replacing the lower part of the 'siliclastic strata' unit and the Old Fort Point Formation; stratigraphically positioned to be correlative with the interval of the Meadow Creek Formation, Old Fort Point Formation and the lower part of the Wynd Formation on the right side of the column; added question mark at its base to indicate uncertainty about the presence of the lower McKale Formation in the area | Unit addition | | | x | | | | | | | | | 1 May, 2019 | Hein and McMechan (1994), Pana and Elgr (2013), McMechan (2015) |
| 25 | Symbolized likely extension of the Old Fort Point Formation strata as a member or marker bed horizon within the McKale Formation by dashed lines; added question mark to indicate uncertainty | Geographic extent | | | x | | | | | | | | | 1 May, 2019 | Carey and Simony (1985), Ferguson and Ross (2003), Smith et al. (2014a, b), McMechan (2015) |
| 26 | Changed 'Comments' and 'References' sections in the side bar to reflect updated citations and references | Text change | | | | | | | | | | x | | 1 May, 2019 | Cohen et al. (2013 updated), Pana and Elgr (2013), Prior et al. (2013) |

2. References

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