

1. Change Log for Alberta Table of Formations

Change Sequence Number	Change Description	Change Type	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
397	Changed publication date in side bar to "September 2015"	Text change										x	8 September, 2015	na
396	Changed depiction of contact between the siliciclastic strata and the Byng Formation in the northern Mountains and Foothills area column from step-like to inclined indicating facies transition	Contact type		x									8 September, 2015	Slind and Perkins (1966), Mountjoy (1980), Teitz and Mountjoy (1985), Glass (1990), Hein and McMechan (1994), Pana and Elgr (2013), Prior et al. (2013)
395	Corrected spelling of "Basal Sandstone" (Cambrian) to read "Basal Sandstone Unit" in southern and central Plains area columns	Spelling correction					x	x	x				8 September, 2015	Pugh (1971, 1973), Weides et al. (2014)
394	Changed depiction of contact between the Mount Whyte and Cathedral formations in the southern Plains area column from step-like to inclined indicating facies transition	Contact type					x						8 September, 2015	Slind et al. (1994), Hein and Nowlan (1998), Hein et al. (1998a, b)
393	Corrected spelling error in unit label for Mount Whyte Formation in the southern Plains area column; changed from "White" to "Whyte"	Spelling correction					x						8 September, 2015	na
392	Changed placement of the base of the Lynx Group in the west-central Plains area column from the base of the Arctomys Formation to the base of the Waterfowl Formation	Stratigraphic position						x					8 September, 2015	Mountjoy (1962), Aitken and Greggs (1967), Glass (1990)
391	Changed geographic extent of the Lower Lynx unit in the northern Mountains and Foothills area column to extend about halfway across the width of the column	Geographic extent		x									8 September, 2015	Glass (1990), Slind et al. (1994)
390	Changed geographic extent of the Upper Lynx unit across the whole width of the northern Mountains and Foothills area column	Geographic extent		x									8 September, 2015	Glass (1990), Slind et al. (1994)
389	Removed Mistaya, Bison Creek, and Lyell formations from the northern Mountains and Foothills area column	Geographic extent		x									8 September, 2015	Glass (1990), Slind et al. (1994)
388	Changed background colour of Upper and Lower Lynx units in the northern Mountains and Foothills area column from white to blue (carbonate lithology)	Unit lithology		x									8 September, 2015	Glass (1990), Slind et al. (1994)
387	Removed Upper Lynx and Lower Lynx unit boxes from the central Mountains and Foothills area column	Geographic extent			x								8 September, 2015	Glass (1990), Slind et al. (1994)

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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			
386	Changed width of Tipperary Formation box in the central Mountains and Foothills area column to extend as far to the right as the overlying upper part of the Skoki Formation	Geographic extent			x								8 September, 2015	Norford et al. (1994)
385	Changed stratigraphic placement of the Mount Wilson Formation in the central Mountains and Foothills area column to correlate with the Red River Formation in the southern and east-central Plains area columns	Stratigraphic position			x								8 September, 2015	Norford et al. (1994)
384	Changed lateral boundaries of the Ernestina Lake and Cold Lake formations with the La Loche Formation in the northeast Plains area column indicating facies transition	Contact type									x		8 September, 2015	Glass (1990), Meijer Drees (1994), Morrow et al. (2002), Prior et al. (2013)
383	Changed lateral boundary of the Chinchaga Formation in the northeast Plains area column from step-like to inclined indicating facies transition with the upper part of the Contact Rapids Formation	Contact type									x		8 September, 2015	Glass (1990), Meijer Drees (1994)
382	Changed depiction of unit rank of the Zama unit in the northwest Plains area column from formation to member (of the Muskeg Formation) by changing the box outlines from solid to dashed	Unit rank change									x		8 September, 2015	Glass (1990)
381	Changed boundary of the Granite Wash unit strata of the Elk Point, Beaverhill Lake, Woodbend and Winterburn groups in the northwest Plains area column from step-like to inclined indicating facies change/lapout boundary relationships	Contact type									x		8 September, 2015	Halbertsma and Meijer Drees (1987), Trotter and Hein (1988), Meijer Drees (1994), O'Connell (1994)
380	Changed right boundaries of the Lotsberg, Ernestina Lake, and Cold Lake formations, and the lower part of the Contact Rapids Formation in the east-central Plains area column from step-like to inclined indicating progressive onlap onto the Meadow Lake Escarpment	Contact type						x					8 September, 2015	Meijer Drees (1994), Meijer Drees et al. (2002)
379	Changed left boundaries of the Contact Rapids, Winnipegosis and Prairie Evaporite formations in the west-central Plains area column from step-like to inclined indicating progressive onlap onto West Alberta Ridge	Contact type						x					8 September, 2015	Meijer Drees (1994), Meijer Drees et al. (2002)

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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			
378	Changed left boundaries of the Contact Rapids, Winnipegosis, Prairie Evaporite, and Watt Mountain formations and the basal part of the Slave Point Formation in the southern Plains area column from step-like to inclined indicating progressive onlap onto West Alberta Ridge	Contact type				x							8 September, 2015	Meijer Drees (1994), Meijer Drees et al. (2002)
377	Added abbreviation "LK" for "Lake" to list of abbreviations	Text addition										x	8 September, 2015	na
376	Changed contact between the Kakisa Formation and the Redknife Formation in the northwest Plains area column from step-like to inclined indicating lateral facies transition	Contact type									x		8 September, 2015	McLean and Klapper (1998), Okulitch (2006b)
375	Changed geographic extent of the Upper Exshaw member in the southern Plains area column to extend across the whole column width	Geographic extent				x							8 September, 2015	Richards et al. (1994)
374	Corrected unit lithology of the Upper Exshaw member in the northern Mountains and Foothills area column from shale (grey) to carbonate (blue)	Unit lithology		x									8 September, 2015	Richards et al. (1994)
373	Changed geographic extent of the Pekisko Formation in the southern Plains area column to extend more to the right beyond the extent of the Shunda Formation indicating erosional truncation	Geographic extent				x							8 September, 2015	Richards et al. (1994)
372	Adjusted box length of Mount Head Formation members in the southern Mountains and Foothills area column to fit Carnarvon Member label without crossing box boundary to the right	Presentation format				x							8 September, 2015	na
371	Fixed character spacing issue in "Unnamed Upper Mannville" label in the southern and west-central Plains area columns	Text formatting					x	x					8 September, 2015	na
370	Changed publication date in side bar to "August 2015"	Text change										x	17 August, 2015	na
369	Added recommended reference format for Alberta Table of Formations in the side bar	Text addition										x	17 August, 2015	na
368	Added "Reference" section in the side bar with full references of those cited in the "Comments" section	Text addition										x	17 August, 2015	na
367	Changed text of the "Comments" section in the side bar to provide explanatory notes for the user of the table, including information on the limitations and selected source literature	Text change										x	17 August, 2015	na

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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				
366	Removed "Resource Occurrence" section from the side bar	Symbol deletion											x	17 August, 2015	na
365	Added listing of all abbreviations used on the table in the side bar	Text addition											x	17 August, 2015	na
364	Added symbols and labels for depiction of boundary truncated by erosion and lapout boundary or facies change, respectively, in the "Contacts" section in the side bar	Symbol addition											x	17 August, 2015	na
363	Changed text "Correlation uncertain" to "Contact uncertain" in the "Contacts" section in the side bar	Text change											x	17 August, 2015	na
362	Changed text "Formation, group boundary" and "Member, zone, unit boundary" to "Formation or group boundary" and "Member or unit boundary", respectively, in the "Contacts" section in the side bar	Text change											x	17 August, 2015	na
361	Removed "terminology transition" symbol and label from the "Contacts" section in the side bar	Symbol deletion											x	17 August, 2015	na
360	Shortened text "Geological Contacts" to "Contacts" in side bar	Text change											x	17 August, 2015	na
359	Changed and expanded lithology legend in the side bar to better reflect range of lithologies shown in the geographic area columns	Presentation format											x	17 August, 2015	na
358	Changed text "Lithologic Colour Code" to "Lithology" in the side bar	Text change											x	17 August, 2015	na
357	Removed text "Legend" from the side bar	Text deletion											x	17 August, 2015	na
356	Removed old corporate logo and added new Alberta Energy Regulator/ Alberta Geological Survey combined logo at the top of the side bar	Presentation format											x	17 August, 2015	na
355	Changed title text from "Table of Formations, Alberta" to "Alberta Table of Formations" and moved title from the top of the table to the side bar	Text change											x	17 August, 2015	na
354	Changed unit label "Precambrian" to "Archean and Paleoproterozoic Metamorphic and Igneous Cratonic Rocks"	Unit name change	x											17 August, 2015	Burwash et al. (1994)
353	Added member units for Lazenby Lake Formation (Hodge, Clampitt, Shiels, Larter members), Locker Lake Formation (Snare, Brudell, Marsin members), and Otherside Formation (Archibald member) to the Athabasca Group in the northeast Plains area column	Unit addition												17 August, 2015	Glass (1990), Ramaekers et al. (2007), Pana (2010), Prior et al. (2013)

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			All area columns	N Mtns & Fthls	Central Mtns & Fthls	S Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains				NE Plains	
352	Added Paleo- to lower Mesoproterozoic Athabasca Group with Fair Point, Smart, Manitou Falls, Lazenby Lake, Wolverine Point, Locker Lake, and Otherside formations to right (northeastern) part of the northeast Plains area column; unit lithology for all units is sandstone (yellow) with the exception of the Wolverine Point, which is represented as shale (grey); placed the group stratigraphically so that the boundary between the Paleoproterozoic and Mesoproterozoic falls approximately into the middle of the Locker Lake Formation	Unit addition										x		17 August, 2015	Glass (1990), Ramaekers et al. (2007), Pana (2010), Prior et al. (2013)
351	Added Mesoproterozoic Purcell Group with Haig Brook (carbonate lithology), Tombstone Mountain (shale lithology), Waterton (carbonate lithology), Altyn (carbonate lithology), Appekunny (sandstone lithology), Grinnell (shale lithology), Siyeh (carbonate lithology), Purcell Lava (volcanic lithology), Sheppard (carbonate lithology) Gateway (shale lithology), Phillips (sandstone lithology), and Roosville (shale lithology) formations to the southern Mountains and Foothills area columns	Unit addition				x								17 August, 2015	Fermor and Price (1983), Glass (1990), Hein and McMechan (1994), Pana and Elgr (2013), Prior et al. (2013)
350	Added Corral Creek Formation (Miette Group; shale lithology) to the central Mountains and Foothills area columns	Unit addition		x	x									17 August, 2015	Aitken (1969), Glass (1990), Pana and Elgr (2013), Prior et al. (2013)
349	Added Old Fort Point Formation (Miette Group, shale lithology) to the northern and central Mountains and Foothills area column and to the right (southern) side of the northern Mountains and Foothills area column	Unit addition		x	x									17 August, 2015	Charlesworth et al. (1967), Aitken (1969), Glass (1990), Pana and Elgr (2013), Prior et al. (2013), Smith et al. (2014)
348	Added Hector Formation to the central Mountains and Foothills area column and to the right (southern) side of the northern Mountains and Foothills area column and placed the unit stratigraphically that its top and base correlate with those of the siliclastic strata	Unit addition		x	x									17 August, 2015	Glass (1990), Hein and McMechan (1994), Aitken (1997), Pana and Elgr (2013), Prior et al. (2013)

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			All area columns	N Mtns & Fthls	Central Mtns & Fthls	S Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains	NE Plains			
347	Added Byng Formation (carbonate lithology) and informal "Siliciclastic Strata" (shale lithology) to the left (northern) side of the northern Mountains and Foothills area column, with the Byng Formation being correlative with the upper part of the siliciclastic strata	Unit addition		x									17 August, 2015	Slind and Perkins (1966), Mountjoy (1980), Teitz and Mountjoy (1985), Glass (1990), Hein and McMechan (1994), Pana and Elgr (2013), Prior et al. (2013)
346	Added Neoproterozoic Windermere Supergroup and Miette Group to the northern and central Mountains and Foothills area columns	Unit addition		x	x								17 August, 2015	Young et al. (1973), Pana and Elgr (2013), Prior et al. (2013)
345	Added Jasper Formation (sandstone lithology, Gog Group) in left part of the northern and central Mountains and Foothills area columns and placed it stratigraphically at the base of the Lower Cambrian, with an unconformity gap between the top of the Jasper and the base of the McNaughton (northern Mountains and Foothills) and the base of the Fort Mountain Formation (central Mountains and Foothills)	Unit addition		x	x								17 August, 2015	Charlesworth et al. (1967), Glass (1990), Hein and McMechan (1994), Lickorish and Simony (1995), Desjardin et al. (2010), Pana and Elgr (2013), Prior et al. (2013)
344	Added members of the McNaughton Formation (Solitude, Sophist, Poker members; sandstone lithology) in the northern Mountains and Foothills area column	Unit addition		x									17 August, 2015	Lickorish and Simony (1995)
343	Added Gog Group formations (Fort Mountain, Lake Louise, St. Piran [all sandstone lithology], and Peyto [carbonate lithology] formations) in the central Mountains and Foothills area column	Unit addition			x								17 August, 2015	Glass (1990), Hein and McMechan (1994), Aitken (1997), Pana and Elgr (2013), Prior et al. (2013)
342	Added Gog Group formations (McNaughton [sandstone lithology], Mural [carbonate lithology], Mahto [sandstone lithology], and Hota [carbonate lithology]) in the northern Mountains and Foothills area column	Unit addition		x									17 August, 2015	Glass (1990), Hein and McMechan (1994), Aitken (1997), Pana and Elgr (2013), Prior et al. (2013)
341	Changed stratigraphic placement of the base of the Middle Cambrian units all area columns to fall within the lower part of the Middle Cambrian to create unconformity gap between the top of the Lower Cambrian Gog Group and the base of the Snake Indian and Mount Whyte formations in the northern and central Mountains and Foothills area columns	Stratigraphic position	x										17 August, 2015	Slind et al. (1994), Aitken (1997)
340	Removed Gog Group from the southern Mountains and Foothills area column	Geographic extent				x							17 August, 2015	Pana and Elgr (2013), Prior et al. (2013)

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			All area columns	N Mtns & Fthls	Central Mtns & Fthls	S Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains	NE Plains			
339	Changed stratigraphic placement of the Cambrian Basal Sandstone unit in the southern and central Plains area columns so that it falls into the Middle Cambrian and shows younging towards the right (eastern) side of the columns with facies transitions with the lower part of the Mount Whyte and Earlie formations in the southern and east-central Plains area columns and with the entire Earlie Formation to just above the Pika Formation) towards the right (eastern) side of the west-central Plains area column	Stratigraphic position					x	x	x				17 August, 2015	Slind et al. (1994), Hein and Nowlan (1998), Hein et al. (1998a, b)
338	Added Middle Cambrian Flathead (sandstone lithology), Gordon (shale lithology), Elko (carbonate lithology), and Windsor Mountain (carbonate lithology) formations to the southern Mountains and Foothills area column, with the Flathead being laterally equivalent to the Basal Sandstone unit, the Gordon and Elko to the Mount Whyte and Cathedral, respectively, and the Windsor Mountain to the Stephen and lower part of the Eldon formations	Unit addition				x							17 August, 2015	Glass (1990), Slind et al. (1994), Pana and Elgr (2013), Prior et al. (2013)
337	Changed lateral boundaries of the Arctomys, Pika, and Eldon formations on the far left (southwestern) side of the southern Plains area column to show erosional truncation at the sub-Devonian unconformity	Contact type					x						17 August, 2015	Slind et al. (1994)
336	Removed Titkana Formation from the northern Mountains and Foothills area column, because it is considered obsolete (is mapped as Eldon Formation)	Unit deletion		x									17 August, 2015	Mountjoy (1980), Aitken (1997), Pana and Elgr (2013), Prior et al. (2013), McMechan (pers. comm., 2015)
335	Removed Lower and Middle Cambrian units (Gog, Mount Whyte, Cathedral, Stephen, Eldon, Pika, and Arctomys) from the southern Mountains and Foothills area column	Geographic extent											17 August, 2015	Slind et al. (1994)
334	Removed Cambrian stratigraphic units (Basal Sandstone, Mount Whyte, Cathedral, Stephen, Eldon, Pika, and Lynx) from the northwest Plains area column	Geographic extent								x			17 August, 2015	Slind et al. (1994)
333	Changed geographic extent of the Pika Formation in the southern Plains area column to extend further to the right (eastern) side of the column	Geographic extent					x						17 August, 2015	Slind et al. (1994)

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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			
332	Removed Arctomys, Eldon, and Cathedral formations from the east-central Plains area column	Geographic extent								x			17 August, 2015	Slind et al. (1994)
331	Changed unit lithology of Arctomys Formation in the northern and central Mountains and Foothills, and the southern and central Plains area columns from blue (carbonate) to grey (shale)	Unit lithology		x	x		x	x	x				17 August, 2015	Glass (1990), Slind et al. (1994)
330	Changed stratigraphic placement of the base of the Lynx Group in the northern and central Mountains and Foothills and the east-central Plains area columns to fall into the uppermost Upper Cambrian, so that the Cambrian/Ordovician boundary is placed at the level of the middle of the Waterfowl Formation	Stratigraphic position		x	x				x				17 August, 2015	Glass (1990), Aitken (1993, 1997), Slind et al. (1994)
329	Changed stratigraphic placement of the base of the Deadwood Formation in the southern and east-central Plains area columns to correlate with the base of the Arctomys Formation (top of Pika Formation)	Stratigraphic position					x		x				17 August, 2015	Slind et al. (1994)
328	Changed stratigraphic placement of the top of the Deadwood Formation in the southern and east-central Plains area columns to fall into the lowermost Ordovician; showed truncation by erosion at the sub-Devonian unconformity down to the level of the Arctomys Formation on the left (southwestern) side of the southern Plains area column	Stratigraphic position					x		x				17 August, 2015	Glass (1990), Slind et al. (1994)
327	Removed Lynx Group box and label from the southern and east-central Plains area column	Geographic extent					x		x				17 August, 2015	Slind et al. (1994), Hein and Nowlan (1998)
326	Removed Finnegan Formation from the southern and central Plains area columns	Unit deletion					x	x	x				17 August, 2015	Hein and Nowlan (1998)
325	Removed Lynx Group strata (Waterfowl, Sullivan, Lyell, Bison Creek, and Mistaya formations) from southern Mountains and Foothills area column	Geographic extent				x							17 August, 2015	Slind et al. (1994), Prior et al. (2013)
324	Changed stratigraphic placement of the base of the Survey Peak Formation in the northern and central Mountains and Foothills area columns to fall into the uppermost Upper Cambrian	Stratigraphic position		x	x								17 August, 2015	Glass (1990), Aitken (1997)
323	Changed geographic extent of the Outram Formation to extend to the northern Mountains and Foothills area column	Geographic extent		x									17 August, 2015	Slind et al. (1994), Pana and Elgr (2013)

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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			
322	Changed stratigraphic placement of the base of the Skoki Formation in the northern Mountains and Foothills area column to correlate with the base of the Skoki Formation (and the base of the Tipperary Formation) in the central Mountains and Foothills area column	Stratigraphic position		x									17 August, 2015	Norford (1969), Norford et al. (1994), McMechan (2013)
321	Removed Monkman and Kechika formations from the northern Mountains and Foothills area column	Unit deletion		x									17 August, 2015	Norford (1990), McMechan (2013), Pana and Elgr (2013)
320	Changed stratigraphic placement of the base of the Mount Wilson Formation and the top of the Owen Creek Formation in the central Mountains and Foothills area column to create unconformity gap spanning the uppermost Middle to lowermost Upper Ordovician	Stratigraphic position			x								17 August, 2015	Osadetz and Haidl (1989), Norford et al. (1994)
319	Added Interlake Formation (carbonate lithology) to the right (eastern) side of the southern Plains area column above the Stonewall Formation and placed it stratigraphically into the Lower Silurian	Unit addition					x		x				17 August, 2015	Norford et al. (1994)
318	Reduced geographic extent of the Red River, Stony Mountain and Stonewall formations in the southern and east-central Plains area columns to the extreme right (eastern) part of the column	Geographic extent					x		x				17 August, 2015	Norford et al. (1994)
317	Changed stratigraphic placement of the top of the Beaverfoot Formation in the central Mountains and Foothills area column and the top of the Stonewall Formation in the southern and east-central Plains area columns to fall into the lower part of the Lower Silurian	Stratigraphic position			x		x		x				17 August, 2015	Osadetz and Haidl (1989), Glass (1990), Norford et al. (1994)
316	Changed geographic extent of the entire Elk Point Group succession in the northeastern Plains area column to indicate progressive southwestward erosional truncation below sub-Cretaceous unconformity and at the present day bedrock surface	Geographic extent									x		17 August, 2015	Okulitch (2006a), Prior et al. (2013)
315	Changed stratigraphic placement of the boundary between the Lower and Middle Devonian (Emsian/Eifelian) to fall at the level of the middle of the Cold Lake Formation; age assignments for this part of the stratigraphy vary widely	Stratigraphic position											17 August, 2015	Glass (1990), Meijer Drees (1994), Morrow et al. (2002)

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314	Changed stratigraphic placement of the top of the Granite Wash unit on the left (western) side of the northwest Plains area column to extend all the way up to the top of the Winterburn Group, resulting in a thin vertical wedge representing coarse clastics flanking and overlying the crystalline basement rocks of the Peace River Arch, remnants of which remained exposed until the end of the Devonian; the contact to other Middle to Upper Devonian units represents onlap and or facies change	Stratigraphic position									x		17 August, 2015	Halbertsma and Meijer Drees (1987), Trotter and Hein (1988), Meijer Drees (1994), O'Connell (1994)
313	Removed Basal Red Beds unit from the northwest Plains area column; basal clastics overlying the Precambrian basement in much of the area are referred to as Granite Wash; Basal Red Beds in this version of the Alberta Table of Formations refer to the Basal Red Beds Member of the Lotsberg Formation, which is restricted to the east-central and northeast Plains	Geographic extent									x		17 August, 2015	Glass (1990)
312	Added La Loche Formation to the right (eastern) side of the northeast Plains area column and placed it to correlate with the interval from the base of the Basal Red Beds member (Lotsberg Formation) to the top of the Cold Lake Formation; added question mark at the base of the unit indicating uncertainty of stratigraphic placement	Unit addition										x	17 August, 2015	Glass (1990), Meijer Drees (1994), Morrow et al. (2002), Prior et al. (2013)
311	Changed unit rank of Basal Red Beds unit in east-central and northeast Plains area columns from formation to member (of the Lotsberg Formation)	Unit rank change								x		x	17 August, 2015	Glass (1990)
310	Changed stratigraphic placement of the contact between the Basal Red Beds unit and the Lotsberg Formation in the east-central and northeast Plains area columns to show lateral facies transition of Lotsberg Formation into Basal Red Beds	Stratigraphic position								x		x	17 August, 2015	Meijer Drees (1994), Meijer Drees et al. (2002)
309	Removed Granite Wash unit from the central and northeast Plains area columns	Geographic extent						x	x				17 August, 2015	Trotter (1989), Glass (1990), Meijer Drees (1994), Prior et al. (2013)

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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	
308	Changed unit lithology of the Ernestina Lake Formation in the east-central and northern Plains area columns from carbonate (blue) to carbonate with anhydrite (blue with diagonal pink hachure)	Unit lithology								x	x	x		17 August, 2015	Glass (1990)
307	Changed unit lithology of the Chinchaga Formation in the northern Plains area column from carbonate (blue) to carbonate with anhydrite (blue with diagonal pink hachure)	Unit lithology									x	x		17 August, 2015	Glass (1990), Prior et al. (2013)
306	Changed geographic extent of the Chinchaga Formation to extend to the left (northern) side of the northeast Plains area column, replacing and laterally transitioning into the upper part of the Contact Rapids Formation	Geographic extent												17 August, 2015	Glass (1990), Meijer Drees (1994)
305	Inserted unconformity gap in the middle part of the Chinchaga Formation on the right (northern) side of the northwest Plains area column	Stratigraphic position									x			17 August, 2015	Morrow et al. (2002)
304	Changed stratigraphic placement of the base of the Chinchaga Formation in the northwest Plains area column to correlate with the top of the lower part of the Contact Rapids Formation	Stratigraphic position									x			17 August, 2015	Glass (1990), Meijer Drees (1994)
303	Changed unit lithology of Contact Rapids Formation in the southern, central, and northern Plains area columns from carbonate (blue) to shaly carbonate (blue with diagonal grey hachure)	Unit lithology					x	x	x	x	x			17 August, 2015	Glass (1990)
302	Changed geographic extent of the lower part of the Contact Rapids Formation to extend into the northwest Plains area column replacing the lower part of the Chinchaga Formation	Geographic extent									x			17 August, 2015	Glass (1990), Meijer Drees (1994)
301	Changed geographic extent of the Muskeg Formation to extend to the left (western) side of the northeast Plains area column	Geographic extent										x		17 August, 2015	Meijer Drees (1994)
300	Changed unit label "Winnipegosis" in the northeast Plains area column to "Keg River" to reflect present day common use of terminology and added "(Methy)" to give the name of outcrop equivalent of the Keg River Formation	Unit name change										x		17 August, 2015	Greiner (1956), Glass (1990), Meijer Drees (1994), Prior et al. (2013), Schneider et al. (2013)

Change Sequence Number	Change Description	Change Type	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
299	Changed unit label "Winnipegosis" to "Winnipegosis/Keg River" in the central Plains area columns to indicate predominance of term "Winnipegosis" and terminology change to Keg River Formation with no distinct boundary in northern part of the central Plains	Unit name change							x	x			17 August, 2015	Accumap-IHS (2015)
298	Removed Pine Point Formation from the northwest Plains area column	Unit deletion									x		17 August, 2015	Glass (1990), Morrow et al. (2002, 2006)
297	Changed geographic extent of the Sulphur Point Formation in the northwest Plains area column to show facies transition with the Muskeg Formation on the left (southern) and right (eastern) side of the column	Geographic extent									x		17 August, 2015	Glass (1990), Morrow et al. (2002, 2006)
296	Changed unit rank of Gilwood unit in the west-central and northwest Plains area columns from formation to member (of the Watt Mountain Formation)	Unit rank change							x		x		17 August, 2015	Glass (1990)
295	Changed stratigraphic placement of the base of the Watt Mountain Formation in the southern, central, and northern Plains area columns to create an unconformity gap (sub-Watt Mountain unconformity) between the Watt Mountain Formation and underlying strata	Stratigraphic position					x	x	x	x	x		17 August, 2015	Meijer Drees (1994)
294	Changed geographic extent of the Watt Mountain, Prairie Evaporite, Winnipegosis, and Contact Rapids formations (all Elk Point Group) to extend to the right (eastern) side of the southern Plains area column, showing progressive onlap to the left (west), i.e., West Alberta Ridge	Geographic extent					x						17 August, 2015	Meijer Drees (1994), Meijer Drees et al. (2002)
293	Changed the stratigraphic placement of the base of the Elk Point Group in the central and northern Plains area columns to extend down to the base of the Granite Wash unit	Stratigraphic position							x	x	x	x	17 August, 2015	Meijer Drees (1994)
292	Removed box labelled "Undivided" next to Elk Point Group box in the southern Plains area column	Unit deletion					x						17 August, 2015	Meijer Drees et al. (2002)
291	Deleted Elk Point Group subdivision into upper and lower subgroups in the central and northern Plains area columns to create space and reduce clutter	Unit deletion							x	x	x	x	17 August, 2015	na

Change Sequence Number	Change Description	Change Type	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				
290	Changed geographic extent of the Fort Vermilion Formation in the northwest Plains area column to transition laterally (left and right) into lower Slave Point Formation strata	Geographic extent										x		17 August, 2015	Oldale and Munday (1994)
289	Changed geographic extent of the Slave Point Formation in the northeast Plains area column to extend as far to the right (east) as the underlying Fort Vermilion Formation (to subcrop below the sub-Cretaceous unconformity and outcrop) and transition into it laterally	Geographic extent											x	17 August, 2015	Okulitch (2006a), Prior et al. (2013)
288	Changed stratigraphic position of the base of the Beaverhill Lake Group in all Plains area columns to fall into the upper Givetian, so that the Givetian/Frasnian boundary is placed approximately at the top of the Firebag Member of the Waterways Formation in the northeast and east-central Plains area columns	Stratigraphic position					x	x	x	x	x			17 August, 2015	McLean and Klapper (1998)
287	Changed unit lithology of the Mildred Member in the northeast and east-central Plains area columns from carbonate (blue) to shale (grey)	Unit lithology								x		x		17 August, 2015	Glass (1990)
286	Added Waterways Formation members (Firebag, Calumet, Christina, Moberly, Mildred) to the right side of the east-central Plains area column	Geographic extent								x				17 August, 2015	Oldale and Munday (1994)
285	Changed the stratigraphic placement of the top of the Swan Hills Formation on the left (western) side of the west-central Plains area column to correlate with the top of the Beaverhill Lake Group to indicate continuous reef development	Stratigraphic position							x					17 August, 2015	Weissenberger (1994)
284	Removed Swan Hills Formation from the southern Plains area column	Geographic extent					x							17 August, 2015	Glass (1994), Oldale and Munday (1994)
283	Changed stratigraphic placement of the Muskwa Formation in the northwest Plains area column so that the upper part of the Muskwa Formation is correlative with the Majeau Lake Member and lower part of the Duvernay Formation, and the base of the Muskwa Formation coming into contact with the top of the Slave Point Formation on the right (northern) side of the column, representing the contact relationship in the area of the Hay River Platform	Stratigraphic position										x		17 August, 2015	Williams (1977), Morrow and Geldsetzer (1988), McLean and Klapper (1998), Morrow (2012)

Change Sequence Number	Change Description	Change Type	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			
282	Changed stratigraphic placement of the top of the Slave Point Formation on the right (northern) side of the northwest Plains area column to correlate with the top of the Christina Member (Waterways Formation) in the northeast Plains area column, representing contact relationship between the Slave Point and Waterways Formation in the area of the Hay River Platform; Waterways Formation overlies and downlaps onto Slave Point Formation	Stratigraphic position									x		17 August, 2015	Oldale and Munday (1994), Okulitch (2006b), Schneider et al. (2013)
281	Changed stratigraphic placement of the combined Grosmont 1 and 2 units in the northeast Plains area column to be correlative with the Duvernay Formation	Stratigraphic position										x	17 August, 2015	Switzer et al. (1994)
280	Replaced Grosmont Formation subdivisions A, B, C, D with Lower Grosmont (LG), Grosmont 1 (I), Grosmont 2 (II), and Grosmont 3 (III) in the northeast Plains area column	Unit name change										x	17 August, 2015	Cutler (1983), Switzer et al. (1994)
279	Changed stratigraphic placement of the top of the Cooking Lake Formation and Majeau Lake Member in the southern, east-central, and northeast Plains area columns to fall at the level of the lower part of the Perdreux Formation (approximately correlative to the top of the Maligne Formation) in the Mountains and Foothills area columns; on the right (northern) side of the northeast Plains area column the Cooking Lake Formation thins and its upper part is correlative with lowermost part of the Ireton Formation (Majeau Lake Member and Duvernay Formation not recognized)	Stratigraphic position					x		x			x	17 August, 2015	McLean and Klapper (1998)
278	Changed stratigraphic placement of the top of the Leduc Formation on the left (southern) side of the northwest Plains area column to correlate with the top of the Woodbend Group indicating continuous shallow water carbonate deposition around the Peace River Arch	Stratigraphic position									x		17 August, 2015	Switzer et al. (1994)
277	Added Grumbler Group box and label to the northwest Plains area column to symbolize stratigraphic grouping of Twin Falls, Tathlina, Redknife, and Kakisa formations	Unit addition									x		17 August, 2015	Belyea and McLaren (1962), Glass (1990)

Change Sequence Number	Change Description	Change Type	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					
276	Merged stratigraphically equivalent shale facies of the Ireton and Fort Simpson formations (from the top of Muskwa Formation to the base of Jean Marie Member) into one unit labelled "Ireton/Fort Simpson" in the northwest Plains area column	Unit name change										x			17 August, 2015	Belyea (1964), Glass (1990), Meijer Drees et al. (1994)
275	Added Alexandra Member (carbonate lithology) in the lower part of the Twin Falls Formation in the northwest Plains area column	Unit addition										x			17 August, 2015	Crickmay (1957), Belyea and McLaren (1962), Glass (1990), McLean and Klapper (1998)
274	Changed stratigraphic placement of the contact between the Hay River and Twin Falls formations in the northwest Plains area column to correlate with the contact between the Cairn and Southesk formations in the Mountains and Foothills area columns	Stratigraphic position										x			17 August, 2015	McLean and Klapper (1998)
273	Changed unit lithology of the Tathlina Formation in the northwest Plains area column from carbonate (blue) to shale (grey)	Unit lithology										x			17 August, 2015	Glass (1990), Okulitch (2006b)
272	Removed Tathlina, Hay River, and Twin Falls Formations from the northeast Plains area column and add to the right (northern) side of the northwest Plains area column	Geographic extent										x	x		17 August, 2015	McLean and Klapper (1998), Okulitch (2006a, b), Prior et al. (2013)
271	Changed geographic extent of Majeau Lake Member and Duvernay Formation to extend into the left (western) part of the northeast Plains area column	Geographic extent											x		17 August, 2015	Switzer et al. (1994)
270	Removed Basal Cooking Lake unit from the west-central Plains area column; very thin marker bed, which is usually mapped as part of Majeau Lake Member	Unit deletion							x						17 August, 2015	Switzer et al. (1994), Hauck (pers. comm., 2015)
269	Changed stratigraphic placement of the top of the Camrose Member (Ireton Formation) in the southern and west-central Plains area columns and the left part of the east-central Plains area column to allow for thin interval of Ireton Formation above	Stratigraphic position					x	x	x						17 August, 2015	Switzer et al. (1994)
268	Changed geographic extent of the Camrose Member (Ireton Formation) to extend to the left (northern) part of the southern Plains area column	Geographic extent					x								17 August, 2015	Switzer et al. (1994)
267	Changed stratigraphic placement of the base of the Nisku Formation in the left (western) part of the northeast Plains area column to indicate facies transition into Ireton Formation shale facies Winterburn-time shales	Stratigraphic position											x		17 August, 2015	Switzer et al. (1994), Wendte et al. (1995), McLean and Klapper (1998)

Change Sequence Number	Change Description	Change Type	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 Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains	NE Plains			
266	Changed geographic extent of Nisku Formation to extend into the east-central Plains area column and the left (southern) part of the northwest Plains area column, with only the upper part of the Nisku Formation (labelled "Upper Nisku" and positioned as being correlative to the Jean Marie Member) extending to the right (northern) part of the column over Ireton Formation shale	Geographic extent								x	x		17 August, 2015	Switzer et al. (1994), Meijer Drees et al. (1994)
265	Changed stratigraphic placement of the base of the Winterburn Group in the west-central Plains area column to the base of the Lobstick Member	Stratigraphic position							x				17 August, 2015	Wendte et al. (1995), McLean and Klapper (1998)
264	Changed unit lithology of unnamed Winterburn unit in the west-central Plains area column from carbonate (blue) to shale (grey) (Ireton lithofacies shale)	Unit lithology							x				17 August, 2015	Switzer et al. (1994)
263	Extend Wolf Lake Member in the west-central Plains area column to the left (northwest) beyond Zeta Lake Member buildup	Geographic extent							x				17 August, 2015	Switzer et al. (1994)
262	Changed stratigraphic placement of the top of Nisku Formation on the left (northwest) side of the west-central Plains area column to extend to the base of the Calmar Formation; upper part of Nisku in the Peace River Arch fringing reefs is considered to be Wolf Lake Member equivalent	Stratigraphic position							x				17 August, 2015	Switzer et al. (1994)
261	Changed stratigraphic placement of the base of the Zeta Lake Member (Nisku Formation) in the west-central Plains area column to extend into the upper part of the Lobstick Member	Stratigraphic position							x				17 August, 2015	Switzer et al. (1994)
260	Changed unit name label "Zeta" to "Zeta Lk" (Zeta Lake Member, Nisku Formation) in the west-central Plains area column	Unit name change							x				17 August, 2015	Glass (1990)
259	Changed unit lithology of the Cynthia Member (Nisku Formation) in the west-central Plains area column from carbonate (blue) to shale (grey)	Unit lithology							x				17 August, 2015	Glass (1990), Switzer et al. (1994)
258	Removed text "(Arcs)" from "Nisku" unit label in the southern Plains area column	Unit name change						x					17 August, 2015	Switzer et al. (1994)
257	Removed Yahatinda Formation from the southern Mountains and Foothills area column	Geographic extent				x							17 August, 2015	Glass (1990), Elliot et al. (2000), McMechan (pers. comm., 2015)

Change Sequence Number	Change Description	Change Type	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 Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains	NE Plains			
256	Changed stratigraphic placement of the base of the Fairholme Group in the Mountains and Foothills area columns to approximate the Frasnian/Famennian boundary with the base of the Flume and Hollebeke formations extending into the uppermost Givetian and showing time-transgressive (onlap) towards the left (western) part of the central and northern Mountains and Foothills columns to indicate onlap onto West Alberta Ridge; indicated uncertainty of stratigraphic placement with question marks	Stratigraphic position		x	x	x							17 August, 2015	Glass (1990), McLean and Klapper (1998)
255	Added Borsato and Hollebeke formations (carbonate lithology) to the right side of the southern Mountains and Foothills area column, with the Borsato Formation being correlative with the upper member of the Cairn Formation and the Hollebeke Formation with the Flume Formation	Unit addition				x							17 August, 2015	Price (1965), Glass (1990), Pana and Elgr (2013), Prior et al. (2013)
254	Changed top of Perdrix adjacent to the Southesk Formation in all Mountains and Foothills columns to correlate with the top of the Peechee Member and showing facies transition with the Mount Hawk Formation towards the right (basinal) side of the columns down to the level just above the top of the Duvernay Formation in the central Plains area columns	Stratigraphic position		x	x	x							17 August, 2015	McLean and Klapper (1998), Van Buchem et al. (2000)
253	Limited geographic extent of the Maligne Formation on the right (basinal) part of the northern and central Mountains and Foothills area columns to show lateral facies transition with the lower part of the Perdrix Formation	Geographic extent		x	x								17 August, 2015	Geldsetzer (1987)
252	Subdivided Cairn Formation in all Mountains and Foothills area columns into an informal Flume member and an informal upper member with the Flume member being correlative with the Flume Formation on the right (basinal) side of the area columns	Unit addition		x	x	x							17 August, 2015	Mountjoy and Geldsetzer (1981), Geldsetzer (1987), Glass (1990)
251	Changed stratigraphic placement of the contact between the Grotto and Arcs members in all Mountains and Foothills area columns to indicate partial time-equivalency (facies transition)	Stratigraphic position		x	x	x							17 August, 2015	Switzer et al. (1994)

Change Sequence Number	Change Description	Change Type	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			
250	Changed stratigraphic placement of the base of the Grotto Member (Southesk Formation) in all Mountains and Foothills area columns to correlate with the base of the Nisku Formation in all Plains area columns; i.e., combined Grotto and Arcs members (excluding Ronde member) are equivalent to the Nisku Formation	Stratigraphic position		x	x	x							17 August, 2015	Geldsetzer (1987), Switzer et al. (1994), McLean and Klapper (1998)
249	Changed stratigraphic placement of the contact between the Southesk and Cairn formations in all Mountains and Foothills area columns to correlate with the top of the Duvernay Formation in the central and northeast Plains area columns	Stratigraphic position		x	x	x							17 August, 2015	McLean and Klapper (1998)
248	Added members of the Southesk Formation (Peechee, Grotto, Arcs) to the left side of the northern Mountains and Foothills area column	Geographic extent		x									17 August, 2015	Mountjoy and Geldsetzer (1981), Geldsetzer (1987), Pana and Elgr (2013), Prior et al. (2013)
247	Removed text "(White Reef)" from "Southesk" and "Peechee" unit labels, and "(Black Reef)" from "Cairn" formation label in central and southern Mountains and Foothills area columns	Unit name change			x	x							17 August, 2015	Glass (1990)
246	Removed Calmar Formation and upper, unnamed part of the Winterburn Group in the northeast Plains area column	Geographic extent									x		17 August, 2015	Switzer et al. (1994), Okulitch (2006a), Prior et al. (2013)
245	Changed unit lithology of the Redknife Formation in the northwest Plains area column from carbonate (blue) to shale (grey) with the exception of the Jean Marie Member	Unit lithology								x			17 August, 2015	Glass (1990), Switzer et al. (1990)
244	Changed stratigraphic placement of the Jean Marie Member (Redknife Formation) in the right (northern) part of the northwest Plains area column to correlate with the Wolf Lake Member (Nisku Formation) in the west-central Plains area column; i.e., top of Jean Marie Member correlates with the top of the Nisku Formation	Stratigraphic position								x			17 August, 2015	McLean and Klapper (1998), Switzer et al. (1994)
243	Changed stratigraphic placement of the base of the Kakisa Formation in the right (northern) part of the northwest Plains area column to correlate with the base of the Blueridge Member and the upper part of the Redknife Formation (facies transition)	Stratigraphic position								x			17 August, 2015	McLean and Klapper (1998), Okulitch (2006)

Change Sequence Number	Change Description	Change Type	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			
242	Changed stratigraphic placement of the base of the Alexo Formation in the central Mountains and Foothills area column and the base of the Calmar Formation in the southern, central, and northwestern Plains area columns to correlate with the base of the Simla/Ronde unit in the northern Mountains and Foothills area column and the base of the Calmar	Stratigraphic position			x		x		x	x	x		17 August, 2015	Mountjoy and Geldsetzer (1981), McLean and Klapper (1998), Switzer et al. (1994)
241	Added Simla unit name (Simla Formation) to Ronde unit name (Ronde Member) to result in combined "Simla/Ronde" unit label in the northern Mountains and Foothills area column	Unit name change		x									17 August, 2015	McLaren and Mountjoy (1962), Geldsetzer (1987)
240	Removed Ronde Member (Southesk Formation) from the central Mountains and Foothills area column	Geographic extent			x								17 August, 2015	Glass (1990)
239	Changed stratigraphic placement of the top of the Blueridge Formation in the central Plains and left part of the northwest Plains area columns and the top of the Kakisa Formation in the right part of the northwest Plains area column to create unconformity gap between the top of the Blueridge Formation and the base of the Graminia Silt unit and between the top of the Kakisa Formation and the base of the Trout River Formation, respectively	Stratigraphic position						x	x	x			17 August, 2015	Moore (1993), Switzer et al. (1994)
238	Changed unit lithology of the Crowfoot Formation in the southern Plains area column from carbonate (blue) to carbonate and anhydrite (blue with pink diagonal hachure)	Unit lithology					x						17 August, 2015	Glass (1990)
237	Changed stratigraphic placement of the base of the Crowfoot Formation in the right (eastern) part of the southern Plains area column to correlate with the base of the Calmar Formation; inserted widening unconformity gap taking up the interval of the Blueridge interval (i.e., top of Calmar to base of Graminia Silt) on the left side of the column	Stratigraphic position					x						17 August, 2015	Glass (1990), Switzer et al. (1994)

Change Sequence Number	Change Description	Change Type	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			
236	Inserted an unconformity gap in the upper Frasnian separating the Sassenach Formation in the northern and southern Mountains and Foothills area columns from the underlying Southesk Formation, and in the central Mountains and Foothills area column from the lower part of the Alexo Formation; contact relationship with the Mount Hawk Formation in basinal settings is conformable.	Stratigraphic position		x	x	x							17 August, 2015	Mountjoy and Geldsetzer (1981), Geldsetzer (1987), Moore (1993), Switzer et al. (1994), Becker (1997)
235	Added Flume, Maligne (central Mountains and Foothills only), Perdrix, and Mount Hawk formations to the right part of the central and southern Mountains and Foothills area columns to indicate presence of these units	Geographic extent			x	x							17 August, 2015	Glass (1990), Switzer et al. (1994), Pana and Elgr (2013), Prior et al. (2013)
234	Changed unit lithology of Mount Hawk Formation in the northern Mountains and Foothills area column from carbonate (blue) to shaly carbonate (blue with grey diagonal hachure)	Unit lithology		x									17 August, 2015	Glass (1990)
233	Changed geographic extent of the Blueridge Member (Graminia Formation) to extend into the left (southern) part of the northwest Plains area column	Geographic extent								x			17 August, 2015	Switzer et al. (1994), Okulitch (2006b)
232	Changed spelling of unit name "Blueridge" to "Blue Ridge" in the central Plains area column	Unit name change						x	x				17 August, 2015	Glass (1990)
231	Changed stratigraphic placement of the base of the Trout River Formation to correlate with the base of the Graminia Formation in the northwest Plains area column	Stratigraphic position								x			17 August, 2015	Glass (1990), Okulitch (2006b)
230	Changed unit lithology of the Trout River Formation from shale (grey) to sandstone and siltstone (yellow) in the northwest Plains area column	Unit lithology								x			17 August, 2015	Switzer et al. (1994)
229	Added Graminia Silt unit (Graminia Formation) to the central Plains area column and the left part of the southern and northwest Plains area columns; placed it stratigraphically so that it correlates with the Sassenach Formation in the Mountains and Foothills area columns (i.e., its base coincides with the Frasnian/Famennian boundary)	Unit addition					x	x	x	x			17 August, 2015	Geldsetzer (1987), Glass (1990), Meijer Drees et al. (1994), Switzer et al. (1994), Okulitch (2006b)

Change Sequence Number	Change Description	Change Type	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			
228	Adjusted stratigraphic placement of the base of the Sassenach Formation in the central and southern Mountains and Foothills area columns to coincide with the Frasnian/Famennian boundary	Stratigraphic position			x	x							17 August, 2015	Glass (1990)
227	Changed geographic extent of the Sassenach Formation to extend into the southern Mountains and Foothills and the left part of the central Mountains and Foothills area columns	Geographic extent			x	x							17 August, 2015	McLaren and Mountjoy (1962), Mountjoy and Geldsetzer (1981), Mountjoy et al. (1992)
226	Removed Alexo Formation from the northern and southern Mountains and Foothills area columns restricting it to the central Mountains and Foothills area column	Geographic extent		x		x							17 August, 2015	McLaren and Mountjoy (1962), Glass (1990), Pana and Elgr (2013), Prior et al. (2013)
225	Changed stratigraphic placement of the contact between the Tetcho and Kotcho formations in the northwest Plains area column to correlate with the top of the Dixonville Member	Stratigraphic position									x		17 August, 2015	Halbertsma (1994)
224	Changed stratigraphic placement of the Crossfield Member (Stettler Formation) in the southern Plains area column to be correlative to the interval of the combined Whitelaw and Normandville members in the central and northwest Plains area columns	Stratigraphic position						x					17 August, 2015	Halbertsma (1994)
223	Changed stratigraphic placement of the contact between the Costigan and the Morro members (both Palliser Formation) in all Mountains and Foothills area columns so that the lower part of the Costigan Member is correlative with the upper part of the Stettler Formation	Stratigraphic position		x	x	x							17 August, 2015	Meijer Drees and Johnston (1994), Johnston et al. (2010)
222	Added members of the Stettler Formation (carbonate lithology) (Dixonville, Whitelaw, Normandville, Cardinal Lake, Last Lake) to the central and northwest Plains area columns; unit lithology for all members with the exception of Dixonville (in central Plains area columns) is carbonate (blue), Dixonville Member in central Plains area columns is carbonate interbedded with anhydrite.	Unit addition							x	x	x		17 August, 2015	Glass (1990), Halbertsma (1994)
221	Removed Crossfield Member (Stettler Formation) from the central Plains area columns	Geographic extent							x	x			17 August, 2015	Glass (1990)
220	Changed geographic extent of the Big Valley and Stettler formations to extend into the northwest Plains area column	Geographic extent									x		17 August, 2015	Glass (1990), Halbertsma (1994), Okulitch (2006b)

Change Sequence Number	Change Description	Change Type	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				
219	Removed Wabamun Group from the northeast Plains area column	Geographic extent										x		17 August, 2015	Halbertsma (1994)
218	Changed stratigraphic placement of the top of the Palliser Formation in all Mountains and Foothills area columns and the Wabamun Group in the southern, central, and northwest Plains area columns to fall into the upper Famennian (Upper Devonian), leaving a unconformity gap with between those units and the overlying Exshaw Formation (with the exception of the east-central Plains area, where Wabamun Group strata subcrop at the sub-Cretaceous unconformity)	Stratigraphic position		x	x	x	x	x	x	x				17 August, 2015	Richards et al. (1994)
217	Limited geographic extent of the Exshaw Formation within the northern and central Mountains and Foothills area columns to indicate local absence due to erosion prior to deposition of overlying Banff Formation	Geographic extent		x	x									17 August, 2015	Richards et al. (1994)
216	Divided Exshaw Formation into a lower and an upper member in all Mountains and Foothills area columns, and the southern, west-central, and northwest Plains area columns; unit lithology of the lower member is shale (grey); unit lithology of the upper member is siltstone (yellow) in the southern, west-central and northwest Plains area columns and carbonate (blue) in all Mountains and Foothills area columns.	Unit addition		x	x	x	x	x			x			17 August, 2015	Glass (1990), Richards et al. (1994)
215	Changed stratigraphic placement of the base of the Exshaw Formation to fall into the uppermost Famennian (Upper Devonian) in all Mountains and Foothills area columns, and the southern, west-central, and northwest Plains area columns	Stratigraphic position		x	x	x	x	x			x			17 August, 2015	Macqueen and Sandberg (1970), Richards and Higgins (1988), Glass (1990), Johnston et al. (2010)
214	Removed Bakken Formation from the southern Plains area column because Alberta Basin stratigraphic terminology (Exshaw Formation, Banff A member) is sufficient to describe interval correlative with the Bakken Formation (Lower, Middle, Upper members in Saskatchewan)	Unit deletion					x							17 August, 2015	Richards et al. (1994), Caplan and Bustin (1998), Hein (pers. comm., 2015)
213	Removed Banff and Exshaw formations from the the northeast Plains area column	Geographic extent										x		17 August, 2015	Richards et al. (1994), Okulitch (2006a), Prior et al. (2013)

Change Sequence Number	Change Description	Change Type	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			
212	Changed stratigraphic placement of the top of the Banff Formation in the southern Mountains and Foothills area column to correlate with the interval from the Pekisko to the middle Shunda formations indicating facies transition between those units and the upper part of the Banff Formation; results in Banff Formation directly underlying Livingstone Formation	Stratigraphic position				x							17 August, 2015	Richards et al. (1994)
211	Added Banff A unit (shale lithology) as an informal member in all Mountains and Foothills area columns, and the southern, west-central, and northwest Plains area columns	Unit addition		x	x	x	x	x			x		17 August, 2015	Richards et al. (1994)
210	Changed unit lithology of Banff Formation from carbonate (blue) to shaly carbonate (blue with grey diagonal hachure) in all Mountains and Foothills area columns, and the southern, west-central, and northwest Plains area columns	Unit lithology		x	x	x	x	x			x		17 August, 2015	Richards et al. (1994)
209	Changed stratigraphic placement of the base of the Shunda Formation in the northwest Plains area column to correlate with the base of the Pekisko; i.e., Pekisko Formation is transitioning eastward (i.e., toward left side of column) via facies change into the lower part of the Shunda Formation	Stratigraphic position									x		17 August, 2015	Richards et al. (1994)
208	Changed unit lithology of Shunda Formation from carbonate (blue) to carbonate interbedded with calcareous shale (blue with grey diagonal hachure) in all Mountains and Foothills area columns, and the southern, west-central, and northwest Plains area columns	Unit lithology		x	x	x	x	x			x		17 August, 2015	Glass (1990)
207	Changed depiction of stratigraphic unit rank of Elkton unit in the east-central Plains column from formation to member (of Turner Valley Formation)	Unit rank change							x				17 August, 2015	Richards et al. (1994)

Change Sequence Number	Change Description	Change Type	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			
206	Added Livingstone Formation (Rundle Group) to the left side of all Mountains and Foothill area columns and placed it stratigraphically that it correlates with the interval from the middle Shunda Formation to the top of the Turner Valley Formation in the northern Mountains and Foothills area column and the interval from the middle Shunda Formation to the top of the Loomis Member (Mount Head Formation) in the southern Mountains and Foothills area column; lower contact with Shunda is shown as time-transgressive facies transition	Geographic extent		x	x	x							17 August, 2015	Richards et al. (1994)
205	Changed stratigraphic placement of the Livingstone Formation in the southern Plains area column to correlate with the interval from the middle of the Shunda Formation to the top of the Turner Valley Formation; moved unit box to the left side of the column	Stratigraphic position					x						17 August, 2015	Richards et al. (1994)
204	Changed stratigraphic placement of the contact between the lower and upper members of the Debolt Formation in the northwest Plains area column to correlate with the top of the Salter Member (Mount Head Formation) in the southern and central Mountains and Foothills area columns	Stratigraphic position								x			17 August, 2015	Glass (1990), Richards et al. (1990)
203	Changed unit lithology of Wileman Member (Mount Head Formation) in the central and southern Mountains and Foothills area column from carbonate (blue) to argillaceous carbonate (blue with grey diagonal hachure)	Unit lithology			x	x							17 August, 2015	Glass (1990), Richards et al. (1994)
202	Added Opal Member (Mount Head Formation; carbonate lithology) on the left side of the central Mountains and Foothills area column and placed it to correlate stratigraphically with the Marston Member and the lower part of the Carnarvon Member	Unit addition			x								17 August, 2015	Macqueen and Bamber (1968), Glass 1990, Richards et al. (1994)

Change Sequence Number	Change Description	Change Type	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 Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains				NE Plains
201	Changed stratigraphic placement of the top of the Mount Head Formation in the northern Mountains and Foothills and southern Plains area columns to correlate with the top of the Loomis Member (Mount Head Formation) in the central and southern Mountains and Foothills area columns and showing progressive removal of older Mount Head Formation strata towards the right side of the columns	Stratigraphic position				x	x						17 August, 2015	Glass (1990), Ng and Jones (1989), Richards et al. (1994)
200	Replaced Debolt Formation with Turner Valley and Mount Head formations in the northern Mountains and Foothills area column	Geographic extent		x									17 August, 2015	Ng and Jones (1989), Richards et al. (1994), Pana and Elgr (2013), Prior et al. (2013)
199	Changed placement of the Golata Formation in the northwest Plains area column to correlate with the Carnarvon Member (Mount Head Formation) in the central and southern Mountains and Foothills columns	Stratigraphic position								x			17 August, 2015	Glass (1990), Richards et al. (1994)
198	Changed stratigraphic placement of the base of the Kiskatinaw Formation and the top of the Golata Formation in the northwest Plains area column to create unconformity gap between the two; Kiskatinaw Formation placed to correlate with the lower and middle parts of the lower Etherington Formation	Stratigraphic position								x			17 August, 2015	Glass (1990), Richards et al. (1994)
197	Changed stratigraphic placement of the base of the Misty and Tyrwhitt formations in the central and southern Mountains and Foothills area columns to create unconformity gap between the top of the underlying Etherington Formation (and Todhunter Member) and the bases of the Misty and Tyrwhitt formations	Stratigraphic position			x	x							17 August, 2015	Richards et al. (1994)
196	Added Todhunter Member (sandstone lithology) to the upper part of the Etherington Formation in the central and southern Mountains and Foothills area columns	Unit addition			x	x							17 August, 2015	Norris (1965), Glass (1990)
195	Inserted unconformity gaps (lower Bashkirien, uppermost Bashkirien, upper Moscovian) within the Taylor Flat Formation on the right (eastern) side of the northwest Plains area column	Stratigraphic position								x			17 August, 2015	Richards et al. (1994), Zubin-Stathopoulos et al. (2013)

Change Sequence Number	Change Description	Change Type	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				
194	Added "Unnamed" unit (carbonate with interbedded shale lithology) to lowermost (Serpukhovian) part of the Taylor Flat Formation in the northwest Plains area column	Unit addition										x		17 August, 2015	Glass (1990)
193	Changed stratigraphic placement of the base of the Taylor Flat Formation in the northwest Plains area column to fall within the Serpukhovian (uppermost Mississippian)	Stratigraphic position										x		17 August, 2015	Richards et al. (1994), Henderson et al. (1994, 2002), Zubin-Stathopoulos (2011), Zubin-Stathopoulos et al. (2013)
192	Added Ksituan Member to Taylor Flat Formation in the northwest Plains area column and placed it in the Pennsylvanian (upper Bashkirian to Gzhelian)	Unit addition										x		17 August, 2015	Richards et al. (1994), Henderson et al. (1994), Zubin-Stathopoulos (2011), Zubin-Stathopoulos et al. (2013)
191	Added unconformity gap (upper Moscovian) within the Kananaskis Formation in the central and southern Mountains and Foothills area columns and changed stratigraphic placement of the contact between the Kananaskis Formation and the underlying Misty and Tobermory formations as time-transgressive (i.e., facies transition)	Stratigraphic position			x	x								17 August, 2015	Zubin-Stathopoulos et al. (2013)
190	Added Tyrwhitt, Storelk, and Tobermory formations to the central and southern Mountains and Foothills area columns and placed them so the base of the Tyrwhitt and the top of the Tobermory are correlative with the base and top, respectively, of the Misty Formation; inserted unconformity gap (upper Bashkirian) between the Storelk and Tobermory formations	Unit addition			x	x								17 August, 2015	Glass (1990), Richards et al. (1994), Henderson (2002, 2009)
189	Changed unit name "Tunnel Mnt." in the central and southern Mountains and Foothills area columns to "Misty"	Unit name change			x	x								17 August, 2015	Glass (1990), Prior et al. (2013)
188	Inserted unconformity gap between the lower and middle Belloy units and within the middle Belloy unit in the northwest Plains area column in the Sakmarian to lower Artinskian (lower to middle Belloy), and in the upper Artinskian-lower Kungurian and the upper Kungurian (middle Belloy)	Stratigraphic position										x		17 August, 2015	Henderson et al. (2002, 2009, 2010), Zubin-Stathopoulos et al. (2013)

Change Sequence Number	Change Description	Change Type	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				
187	Added informal "Lower", "Middle" and "Upper" unit labels to Belloy Formation in the northwest Plains area column with the boundary between the lower and middle Belloy units placed at the top of the Asselian and that between the middle and upper Belloy placed at the top of the Roadian	Unit addition										x		17 August, 2015	Henderson et al. (2002, 2009, 2010), Zubin-Stathopoulos et al. (2013)
186	Changed stratigraphic placement of the base of the Belloy Formation (Ishbel Group) in the northwest Plains area column to fall within the lowermost Asselian	Stratigraphic position										x		17 August, 2015	Henderson et al. (2002, 2009, 2010)
185	Inserted unconformity gaps within the middle Belloy unit in the west-central Plains area column in the intervals from the upper Artinskian-lower Kungurian and in the upper Kungurian	Stratigraphic position							x					17 August, 2015	Zubin-Stathopoulos et al. (2013)
184	Added informal "Middle" and "Upper" unit labels to Belloy Formation in the west-central Plains area column with the boundary between middle and upper Belloy placed at the top of the Roadian	Unit addition							x					17 August, 2015	Zubin-Stathopoulos et al. (2013)
183	Changed stratigraphic placement of the base of the Belloy Formation (Ishbel Group) in the west-central Plains area column to coincide with the base of the Artinskian	Stratigraphic position							x					17 August, 2015	Zubin-Stathopoulos et al. (2013)
182	Adjusted stratigraphic placement of the top of the Belloy Formation (Ishbel Group) in the west-central and northwest Plains area columns to coincide with the top of the Capitanian	Stratigraphic position							x			x		17 August, 2015	Zubin-Stathopoulos et al. (2013)
181	Changed stratigraphic placement of the Johnston Canyon Formation in the central and southern Mountains and Foothills area columns to range in age from the lowermost Asselian to lower Kungurian, with internal unconformity gaps in the upper Asselian to lower Sakmarian and upper Artinskian to lower Kungurian	Stratigraphic position			x	x								17 August, 2015	Henderson et al. (2002), Zubin-Stathopoulos et al. (2013)
180	Changed stratigraphic placement of the Ranger Canyon Formation in the central and southern Mountains and Foothills area columns to range in age from the upper Kungurian to the lower Wuchapingian with a time-transgressive base (mid-upper Kungurian to lowermost Roadian) and an unconformity gap in the upper Capitanian	Stratigraphic position			x	x								17 August, 2015	Zubin-Stathopoulos et al. (2013)

Change Sequence Number	Change Description	Change Type	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			
179	Changed unit name "Ishbel" to "Rocky Mountain" in the central Mountains and Foothills area column	Unit name change			x								17 August, 2015	Prior et al. (2013)
178	Added Belcourt Formation (Ishbel Group; carbonate lithology) in the northern Mountains and Foothills area column and placed it stratigraphically in the Asselian and Sakmarian, leaving an depositional/erosional time gap between the top of the Belcourt Formation and the base of the Ranger Canyon Formation spanning the Artinskian and lower Kungurian	Unit addition		x									17 August, 2015	Bamber and Macqueen (1979), Glass (1990), Henderson et al. (1994), Prior et al. (2013), Pana and Elgr (2013)
177	Added Mowitch Formation (Ishbel Group; sandstone lithology) in the northern Mountains and Foothills area column and placed it stratigraphically to correlate with the upper (Wordian and lowermost Capitanian) part of the Ranger Canyon Formation	Unit addition		x									17 August, 2015	McGugan (1984), Henderson et al. (1994), Zubin-Stathopoulos et al. (2013), Prior et al. (2013), Pana and Elgr (2013)
176	Extended geographic extent of the Ranger Canyon Formation to the northern Mountains and Foothills area column, replacing "Upper" and "Lower" units of the Ishbel Group	Geographic extent		x									17 August, 2015	McGugan et al. (1964), Glass (1990), Henderson et al. (1994)
175	Changed stratigraphic position of the base of the Spray River Group in all Mountains and Foothills area columns and of the base of the Diaber Group in the west-central and northwest area columns to the base of the Triassic	Stratigraphic position		x	x	x		x		x			17 August, 2015	Edwards et al. (1994), Davies et al. (1997), Orchard and Zonneveld (2009), Zonneveld et al. (2010)
174	Added informal Coquinal Dolomite Middle member (CDMM; carbonate lithology) on the left side of the west-central and northwest Plains area columns within the lower part of the Montney Formation approximately correlative with the Mackenzie Dolomite Lentil unit in the central Mountains and Foothills area column	Unit addition						x		x			17 August, 2015	Davies et al. (1997)
173	Changed geographic extent of Montney Formation in the west-central Plains area column to extend past that of the overlying Doig Formation	Geographic extent						x					17 August, 2015	Edwards et al. (1994)
172	Changed unit lithology of Montney Formation in the east-central and northeast Plains area columns from shale (grey) to siltstone (yellow)	Unit lithology						x		x			17 August, 2015	Glass (1990); Edwards et al. (1994)

Change Sequence Number	Change Description	Change Type	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			
171	Increased extent of the lower part of the Starlight Evaporite, Llama, Vega Siltstone, and Phroso Siltstone members across the full width of the northern and central Mountains and Foothills area columns to indicate that they were not impacted by erosion below the sub-Jurassic unconformity	Geographic extent		x	x								17 August, 2015	Glass (1990)
170	Added Mackenzie Dolomite Lentil (MDL) (carbonate lithology) to the base of the Vega Siltstone Member in the central Mountains and Foothills area column	Unit addition			x								17 August, 2015	Glass (1990), Gibson and Poulton (1994), Zonneveld et al. (2010)
169	Added label for undifferentiated "Vega/Phroso" in all Mountains and Foothills area columns	Unit addition		x	x	x							17 August, 2015	Edwards et al. (1994), Zonneveld et al. (2010)
168	Changed unit names "Vega" and "Phroso" to "Vega Siltstone" and "Phroso Siltstone" in all Mountains and Foothills area columns	Unit name change		x	x	x							17 August, 2015	Gibson (1968)
167	Changed stratigraphic placement of the base of the Llama Member (Sulphur Mountain Formation) in all Mountains and Foothills area columns, so that it correlates with the base of the Whistler Member indicating a lateral facies transition between the Whistler Member and the lower Llama Member	Stratigraphic position		x	x	x							17 August, 2015	Edwards et al. (1994), Gibson and Poulton (1994)
166	Changed unit lithology of Whistler Member (Sulphur Mountain Formation) from shale (grey) to carbonate dominated (blue) in all Mountains and Foothills area columns	Unit lithology		x	x	x							17 August, 2015	Glass (1990)
165	Added Valhalla, Braeburn, Nancy and Siphon members to Charlie Lake Formation in the northwest Plains area column	Unit addition								x			17 August, 2015	Edwards et al. (1994)
164	Changed stratigraphic placement of the top of the Starlight Evaporite Member in all Mountains and Foothills area columns to correlate with the top of the Charlie Lake Formation in the west-central and northwest Plains area columns	Stratigraphic position		x	x	x							17 August, 2015	Edwards et al. (1994)
163	Changed unit name "Starlight" to "Starlight Evaporite" in all Mountains and Foothills area columns	Unit name change		x	x	x							17 August, 2015	Glass (1990)
162	Removed Winnifred Member (Whitehorse Formation) from the southern Mountains and Foothills area column (restricting its geographic extent to the central and northern Mountains and Foothills area columns)	Geographic extent				x							17 August, 2015	Glass (1990)

Change Sequence Number	Change Description	Change Type	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 Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains				NE Plains
161	Changed unit name "Brewster" in the northern Mountains and Foothills to "Brewster Limestone"	Unit name change		x									17 August, 2015	Glass (1990); Edwards et al. (1994)
160	Removed Brewster Member (Whitehorse Formation) from the central Mountains and Foothills area column (restricting its geographic extent to the northern Mountains and Foothills area column)	Geographic extent			x								17 August, 2015	Glass (1990)
159	Removed Schooler Creek Group (with Halfway, Charlie Lake, and Baldonnel formations) and Toad and Grayling formations from the northern Mountains and Foothills area column and replaced interval with Spray River Group terminology (i.e., Whitehorse and Sulphur Mountain formations, with member-level subdivisions)	Geographic extent		x									17 August, 2015	Prior et al. (2013), Pana and Elgr (2013)
158	Added Jurassic sandstone units J1, J2, and J3 as isolated boxes on the right side of the west-central Plains area column and placed them in the Pliensbachian-Toarcian (J1), Bathonian-Calloviaian (J2), and Tithonian (J3) intervals with question marks indicating great uncertainty in the age and regional distribution of these units	Unit addition						x					17 August, 2015	Cant and Abrahamson (1996), Handcock et al. (1993), Hopkins (1981), Hopkins et al. (1998), Poulton et al. (1994)
157	Added informal basal sandstone unit at the base of the Fernie Formation (Sinemurian age) in the central and southern Mountains and Foothills area columns	Unit addition			x	x							17 August, 2015	Poulton (1984); Poulton et al. (1994)
156	Added informal lower Fernie shale unit to the southern Mountains and Foothills area column with its top being correlative to the top of the Nordegg Member in the central Mountains and Foothills area column	Unit addition				x							17 August, 2015	Frebold (1957); Poulton et al. (1994)
155	Added Red Deer Member (shaly carbonate lithology) to the northern and central Mountains and Foothills area columns and placed it as correlative to the Nordegg Member	Unit addition		x	x								17 August, 2015	Frebold (1969), Glass (1990), Hall et al. (2004), Asgar-Deen et al. (2004)

Change Sequence Number	Change Description	Change Type	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				
154	Added Gordondale Member (shale lithology) to the northern Mountains and Foothills and west-central and northwest Plains area columns, with its top being correlative to the top of the Nordegg Member, and its base placed with an uncertain age of lower Sinemurian in the northern Mountains and Foothills and northwest Plains area columns, and with more confidence correlative to the base of the Nordegg in the northwest Plains area column	Unit addition		x					x			x		17 August, 2015	Hall et al. (2004), Asgar-Deen et al. (2004)
153	Removed Nordegg Member from the southern Mountains and Foothills and northwest Plains area columns	Geographic extent				x						x		17 August, 2015	Asgar-Deen et al. (2004)
152	Added Gravelbourg Formation (shale lithology) to the right (eastern) part of the southern Plains area column underlying the Shaunavon Formation conformably and showing onlap onto underlying Paleozoic	Unit addition						x						17 August, 2015	Poulton et al. (1994)
151	Separated Sawtooth (left) and Shaunavon (right) formations in the southern Plains area column into a left (western) and a right (eastern) portion to illustrate onlap onto underlying Paleozoic	Geographic extent						x						17 August, 2015	Poulton et al. (1994)
150	Separated Swift Formation in the southern Plains area column into a left (western) and a right (southeastern) portion to illustrate erosional truncation below the sub-Cretaceous unconformity	Geographic extent						x						17 August, 2015	Glass (1990), Poulton et al. (1994)
149	Changed stratigraphic placement of the top of the Ellis Group (Swift Formation) in the southern Plains area column so that the upper part of the Swift Formation is correlative with the upper Fernie shale unit and the lowermost part of the Passage Beds Member in the southern Mountains and Foothills area column	Stratigraphic position						x						17 August, 2015	Glass (1990), Poulton et al. (1994)
148	Removed Rock Creek Member from the northwest Plains area column	Geographic extent										x		17 August, 2015	Poulton pers. comm. (2015)
147	Changed stratigraphic placement of the Pigeon Creek Member in the central Mountains and Foothill area column to be Bajocian in age and correlative with the upper part of the Highwood Member and the Grey Beds Member to the south	Stratigraphic position			x									17 August, 2015	Hall (1984), Glass (1990), Poulton pers. comm. (2015)

Change Sequence Number	Change Description	Change Type	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			
146	Changed unit lithology of the Highwood Member in the central and southern Mountains and Foothills area columns from sandstone (yellow) to shale (grey)	Unit lithology			x	x							17 August, 2015	Glass (1990)
145	Restricted geographic extent of the Highwood Member to the central and southern Mountains and Foothills area columns	Geographic extent			x	x							17 August, 2015	Glass (1990)
144	Restricted geographic extent of the Grey Beds Member to the southern Mountains and Foothills columns; i.e., removed Grey Beds Member from the northern and central Mountains and Foothills and the central and northwest Plains area columns	Geographic extent		x	x	x		x	x	x			17 August, 2015	Poulton et al. (1994)
143	Added Niton Member (sandstone lithology) to the west-central and northwest Plains area columns and placed it in the middle Oxfordian to lowermost Kimmeridgian interval below the informal upper Fernie shale unit	Unit addition						x		x			17 August, 2015	Williams et al. (2013), Poulton pers. comm. (2015)
142	Extended geographic extent of the Green Beds Member to the northern Mountains and Foothills area column	Geographic extent		x	x	x							17 August, 2015	Glass (1990)
141	Replaced unit label "unnamed" in the west-central and northwest Plains area columns with informal "upper Fernie shale" and "upper Fernie shale and sandstone" unit labels, respectively	Unit name change						x		x			17 August, 2015	Poulton et al. (1994)
140	Changed stratigraphic placement of the contact between the Passage Beds Member and the underlying upper Fernie shale unit in the Mountains and Foothills area columns to indicate time-transgressive nature of the contact	Stratigraphic position		x	x	x							17 August, 2015	Poulton et al. (1994)
139	Changed geographic extent of the informal upper Fernie shale unit to extend into the central and southern Mountains and Foothills area columns positioned between Green Beds Member and the Passage Beds	Geographic extent			x	x							17 August, 2015	Poulton et al. (1994)
138	Changed unit label "SHALE with dark reddish-brown bands" in the northern Mountains and Foothills area column with informal "upper Fernie shale" unit	Unit name change		x									17 August, 2015	Poulton et al. (1994), Williams et al. (2013)
137	Changed unit lithology of Passage Beds in the Mountains and Foothills area columns from sandstone (yellow) to shale (grey)	Unit lithology		x	x	x							17 August, 2015	Glass (1990)

Change Sequence Number	Change Description	Change Type	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			
136	Changed stratigraphic placement of the top of the Fernie Formation in the central and southern Mountains and Foothills area columns to accommodate lowering of the base of the Nikanassin Formation in this area	Stratigraphic position				x							17 August, 2015	Miles et al. (2012)
135	Changed unit rank of Fernie unit in the Mountains and Foothills, west-central, and northwest Plains area columns from group to formation	Unit rank change		x	x	x		x			x		17 August, 2015	Glass (1990)
134	Changed stratigraphic placement of the Mist Mountain Formation in the southern Mountains and Foothills area column so that the unit is shown to straddle the Jurassic-Cretaceous boundary	Stratigraphic position				x							17 August, 2015	Poulton (1984), Stott (1991), White and Leckie (1999)
133	Changed geographic extent of the Elk Formation in the southern Mountains and Foothills area column to allow for depiction of contact relationship between underlying Mist Mountain Formation and overlying Cadomin Formation	Geographic extent				x							17 August, 2015	Gibson (1985), Glass (1990)
132	Changed stratigraphic placement of the top and base of the Kootenay Group in the southern Mountains and Foothills area column to be correlative with the top and base of the Nikanassin Formation in the central Mountains and Foothills area column	Stratigraphic position				x							17 August, 2015	Miles et al. (2012)
131	Changed stratigraphic placement of the top and base of the Nikanassin Formation in the central Mountains and Foothills area column to be slightly older than in the northern Mountains and Foothills area column	Stratigraphic position			x								17 August, 2015	Miles et al. (2012)
130	Placed tops of Nikanassin/Monteith and Monteith/Nikanassin units in the west-central and northwest Plains area columns, respectively, to correlate with the top of the Monteith in the northern Mountains and Foothills area column and show erosional truncation towards the right (i.e., to the south and east)	Stratigraphic position						x		x			17 August, 2015	Miles et al. (2012)
129	Changed unit label "Nikanassin" to "Nikanassin/Monteith" in the west-central Plains area column and to "Monteith/Nikanassin" in the northwest Plains area column to indicate presence and predominance of respective units in each area	Unit name change						x		x			17 August, 2015	Miles et al. (2012)

Change Sequence Number	Change Description	Change Type	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 Mnts & Fthls	S Plains	W-Central Plains	E-Central Plains	NW Plains				NE Plains
128	Added Monteith Formation (sandstone lithology) with informal subunits A, B, and C to the left (northern) part of the northern Mountains and Foothills area column, and placing it so that it is shown to range in age from the upper Tithonian (Jurassic) to the Valanginian (Cretaceous) with the subunits A and B (equivalent to the Gorman Creek Formation strata of Stott, 1998) being erosionally truncated towards the right (south) and subunit C being correlative to the Nikanassin Formation	Unit addition		x									17 August, 2015	Stott (1998), Miles et al. (2012)
127	Added question mark to base of Detrital Beds unit in the east-central and southern Plains area columns to indicate uncertainty about stratigraphic placement	Stratigraphic position					x		x				17 August, 2015	Poulton et al. (1994), Hayes et al. (1994)
126	Changed unit name "Detrital" to "Detrital Beds" in the east-central and southern Plains.	Unit name change					x		x				17 August, 2015	Glass (1990)
125	Added Pocaterra Creek Member (sandstone lithology) in the southern Mountains and Foothills straddling the boundary between Kootenay and Blairmore groups with the lower part partially equivalent to the Berriasian Elk Formation and the upper part separated from the overlying Cadomin Formation by an uncertain unconformity gap spanning the late Valanginian and Hauterivian	Unit addition				x							17 August, 2015	White and Leckie (1999)
124	Placed base of the Cadomin Formation on the left side of the southern Mountains and Foothills area column at the base of the Barremian with question marks indicating uncertainty	Stratigraphic position				x							17 August, 2015	White and Leckie (1999)
123	Placed base of the Cadomin Formation in the northern and central Mountains and Foothills and west-central and northwest Plains area columns to coincide with the base of the Aptian	Stratigraphic position		x	x			x	x				17 August, 2015	Leier and Gehrels (2011)
122	Changed stratigraphic placement of the top and base of the Dalhousie unit in the southern Mountains and Foothills area column and that of the correlative Cut Bank Sandstone in the southern Plains area column to show unconformable relationship with overlying and underlying units	Stratigraphic position				x	x						17 August, 2015	Glass (1990), Leckie and Cheel (1997)

Change Sequence Number	Change Description	Change Type	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
121	Changed stratigraphic placement of the top of the Cadomin Formation in the southern Mountains and Foothills to accommodate splitting out the Dalhousie unit from the upper part of the Cadomin Formation	Stratigraphic position				x							17 August, 2015	Glass (1990), Leckie and Cheel (1997)
120	Added Dalhousie unit (sandstone lithology) in the southern Mountains and Foothill area column and placed it to correlate the Cutbank Sandstone in the southern Plains area column	Unit addition				x							17 August, 2015	Glass (1990), Leckie and Cheel (1997)
119	Changed stratigraphic placement of the base of the Moosebar Formation in the northern and central Mountains and Foothills area columns to correlate with the base of the Ostracod Beds (i.e., the Aptian/Albian boundary) in the southern and west-central Plains area columns; show pinchout towards the right (southern) part of the central Mountains and Foothills area column to indicate facies transition relationship with upper Gladstone and lowermost Gates formations	Stratigraphic position		x	x								17 August, 2015	Glass (1990)
118	Labelled empty unit box below Calcareous Member in southern Mountains and Foothills area column "Lower Gladstone"	Unit addition				x							17 August, 2015	Hayes et al. (1994)
117	Changed unit names "Sunburst" and "Cutbank (Taber)" in the southern Plains area column to "Sunburst Sandstone" and "Cutbank Sandstone"	Unit name change					x						17 August, 2015	Glass (1990)
116	Changed geographic extent of the Bantry Shale in the southern Plains area column to extend over the width of the column underlying the Ostracod Beds	Geographic extent					x						17 August, 2015	Hayes et al. (1994)
115	Changed stratigraphic placement of the base of the Ostracod Beds in the southern and west-central Plains area columns to correlate with the top of the Bantry Shale in the southern Plains area column and the base of the Cummings Member in the east-central Plains area column	Stratigraphic position					x	x					17 August, 2015	Hayes et al. (1994)

Change Sequence Number	Change Description	Change Type	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			
114	Changed stratigraphic placement of the top of the Calcareous Member in the central and southern Mountains and Foothills and of the Ostracod Beds in the southern and west-central Plains area columns to correlate with the top of the Bluesky Formation in the west-central and northwest Plains area columns, the top of the Cummings Member in the east-central Plains area column, and the top of the Wabiskaw Member in the northeast Plains area column	Stratigraphic position			x	x	x	x					17 August, 2015	Hein et al. (2007), Cant (2011), Stelck et al. (2007), Hathway et al. (2013)
113	Changed unit lithology of Ostracod Beds unit in the west-central Plains area column from sandstone (yellow) to shale (grey)	Unit lithology						x					17 August, 2015	Glass (1990)
112	Changed unit lithology of Ostracod Beds in the right part of the southern Plains area column from limestone (blue) to shale (grey)	Unit lithology					x						17 August, 2015	Glass (1990)
111	Changed unit name "Ostracod" and "Ostracod Ls." to "Ostracod Beds" in the southern and west-central Plains area columns	Unit name change					x	x					17 August, 2015	Glass (1990)
110	Changed geographic extent of the Bluesky Formation in the northwest Plains area column to extend further than the underlying Gething Formation	Geographic extent								x			17 August, 2015	Prior et al. (2013)
109	Changed stratigraphic rank of the Wabiskaw unit (symbolized as a formation) in the northeast Plains area column from formation to member (of the Clearwater Formation)	Unit rank change									x		17 August, 2015	Badgley (1952), Glass (1990)
108	Changed stratigraphic placement of the Wilrich Member (Spirit River Formation) in the northwest and west-central Plains area columns to correlate with the interval from the base of the Lloydminster Member to the middle of the Rex Member in the east-central Plains area column	Stratigraphic position						x		x			17 August, 2015	Glass (1990), Hayes et al. (1994)
107	Changed stratigraphic placement of the Falher Member (Spirit River Formation) in the northwest and west-central Plains area columns to correlate with the interval from the middle of the Rex Member to the top of the Sparky Member in the east-central Plains area column	Stratigraphic position						x		x			17 August, 2015	Glass (1990), Hayes et al. (1994)

Change Sequence Number	Change Description	Change Type	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				
106	Changed stratigraphic placement of the Notikewin Member (Peace River Formation) in the northwest and west-central Plains area columns to correlate with the interval of the combined Waseca and McLaren members in the east-central Plains area column	Stratigraphic position							x			x		17 August, 2015	Glass (1990), Hayes et al. (1990), Stritch and Schroeder-Adams (1999)
105	Changed stratigraphic placement of the top of the Mannville Group (top of Colony Member) in the east-central Plains area column to correlate with the top of the Harmon Member in the northeast Plains area column and the top of the Hulcross Formation in the northern Mountains and Foothills area column	Stratigraphic position									x			17 August, 2015	Hayes et al. (1994)
104	Changed stratigraphic rank of all units in the lower and upper Mannville Group in the east-central Plains area column from formation to member (i.e., Dina, Cummings, Lloydminster Rex, General Petroleum, Sparky, Waseca, McLaren, Colony)	Unit rank change									x			17 August, 2015	Kent (1959), Vigrass (1977), Christopher (1984), Hayes et al. (1994)
103	Changed unit name "GP." to "General Petroleum" in the east-central Plains area column	Unit name change									x			17 August, 2015	Glass (1990)
102	Changed unit name "Glauconic" to "Glauconic Sandstone" in the southern and west-central Plains area columns	Unit name change						x	x					17 August, 2015	Glass (1990)
101	Changed unit name "Upper Mannville" in the southern Plains area column to "Unnamed Upper Mannville" for interval above the Glauconic (Glauconic + Unnamed Upper Mannville = upper Mannville Group)	Unit name change						x						17 August, 2015	Hayes et al. (1994)
100	Changed unit name of "Home" to "Home Sand" in the southern Mountains and Foothills area column	Unit name change					x							17 August, 2015	Glass (1990)
99	Changed stratigraphic placement of the top of the Cadotte Member in the northwest Plains area column to correlate with the top of the Lynx Creek Member (Mill Creek Formation) in the southern Mountains and Foothills area; this creates unconformity gap between Cadotte and Paddy members	Stratigraphic position										x		17 August, 2015	Hayes et al. (1994), Leckie and Burden (2001), Hathway et al. (2013)

Change Sequence Number	Change Description	Change Type	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
98	Added Loon River Formation (shale lithology) to the right (northern) part of the northwest Plains area column and placed it to correlate with the Spirit River and Peace River formations; lower and upper Loon River units are correlative with the Spirit River and Peace River formations, respectively	Unit addition									x		17 August, 2015	Hathway et al. (2013), Prior et al. (2013)
97	Changed stratigraphic placement of the top of the Peace River Formation in the west-central and northwest Plains area columns to correlate with the top of the Joli Fou Formation in the southern and central Plains area columns; this creates an unconformity gap spanning the time of deposition of the Viking Formation in the central Plains	Stratigraphic position						x			x		17 August, 2015	Roca et al. (2008)
96	Added Cadomin, Gething, Bluesky, Spirit River, and Peace River formations to the left (northern) part of the west-central Plains area column	Geographic extent						x					17 August, 2015	Prior et al. (2013)
95	Changed stratigraphic placement of the base of the Bow Island and Basal Colorado Sand units in the southern Plains area column, and the base of the Joli Fou Formation in the central and northeast Plains area columns to correlate approximately with the base of the Bruin Creek Member (Mill Creek Formation) in the southern Mountains and Foothills area column	Stratigraphic position					x	x	x			x	17 August, 2015	Hayes et al. (1994), Leckie and Burden (2001)
94	Changed unit name "Basal Colorado" to "Basal Colorado Sand" in the southern Plains area column	Unit name change					x						17 August, 2015	Glass (1990)
93	Removed Basal Colorado unit from left (southern) part of the central Plains area column	Geographic extent						x					17 August, 2015	Prior et al. (2013)
92	Changed stratigraphic placement of the base of the Viking (Pelican) Formation in the northeast Plains area column to show lateral facies transition with the Joli Fou Formation	Stratigraphic position									x		17 August, 2015	Prior et al. (2013)
91	Changed unit label "Bow Island" in the southern Plains area column to "Bow Island / Viking" to indicate that Bow Island Formation transitions laterally into Viking Formation	Unit name change					x						17 August, 2015	Roca et al. (2008)
90	Changed unit name "Crownsnest Volcanics" to "Crownsnest" (for formal Crownsnest Formation) in the southern Mountains and Foothills area column	Unit name change				x							17 August, 2015	Hage (1943), Norris (1964), Adair (1986), Pana and Elgr (2013), Prior et al. (2013)

Change Sequence Number	Change Description	Change Type	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			
89	Added Mill Creek Formation (sandstone lithology) with Lynx Creek and Bruin Creek members to the southern Mountains and Foothills area column, with the upper part of the Bruin Creek Member being laterally correlative with the Crowsnest Volcanics unit	Unit addition				x							17 August, 2015	Leckie and Burden (2001), Pana and Elgr (2013), Prior et al. (2013)
88	Removed Ma Butte Formation from the southern Mountains and Foothills area column	Unit deletion				x							17 August, 2015	Leckie and Burden (2001), Pana and Elgr (2013), Prior et al. (2013)
87	Added Hulcross (shale lithology) and Boulder Creek (sandstone lithology) formations (Fort St. John Group) to the northern Mountains and Foothills area column; Hulcross and Boulder Creek formations transition into the upper part of the Gates Formation in the northern part of the area; contact between the Boulder Creek Formation and overlying Shaftesbury Formation (Smoky Group) is conformable; the Hulcross Formation is laterally equivalent to the Harmon Member of the Peace River Formation in northwest Alberta	Unit addition		x									17 August, 2015	Stott (1982), Glass (1990), Hayes et al. (1994), Leckie and Burden (2001), Pana and Elgr (2013), Prior et al. (2013)
86	Removed Luscar Group from the northern Mountains and Foothills area column and replaced with Bullhead and Fort St. John groups	Geographic extent		x									17 August, 2015	Prior et al. (2013)
85	Changed stratigraphic placement of the top of the Barons Sand unit in the southern Mountains and Foothills and southern Plains area columns to correlate with the top of the Fish Scales Formation	Stratigraphic position				x	x						17 August, 2015	Leckie et al. (2000)
84	Changed name of "Barons" unit in the southern Plains area column to "Barons Sand"	Unit name change					x						17 August, 2015	Glass (1990)
83	Reduced rank of Fish Scales unit within the Shaftesbury Formation in the northwest Plains area column from formation to member.	Unit rank change								x			17 August, 2015	Bloch et al. (1993)
82	Changed spelling of unit name "Fish Scale" to "Fish Scales" in all Plains area columns	Spelling correction					x	x	x	x	x		17 August, 2015	Bloch et al. (1993)
81	Changed stratigraphic placement of the base of the Shaftesbury Formation in the northern Mountains and Foothills, west-central and northwest Plains area columns to correlate with the base of the Westgate Formation.	Stratigraphic position		x				x		x			17 August, 2015	Bloch et al. (1993), Prior et al. (2013)

Change Sequence Number	Change Description	Change Type	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				
80	Removed Westgate Formation from the northern Mountains and Foothills and northwest Plains area columns	Geographic extent		x								x		17 August, 2015	Bloch et al. (1993), Prior et al. (2013)
79	Changed stratigraphic placement of the top of the Belle Fourche Formation (contact to overlying Second White Specks Formation) in the southern, central, and northeast Plains area columns to correlate with the top of the Sunkay Member	Stratigraphic position					x	x	x				x	17 August, 2015	Bloch et al. (1999), Leckie et al. (2000), Prior et al. (2013)
78	Removed Belle Fourche unit from the northwest Plains area column	Geographic extent												17 August, 2015	Prior et al. (2013)
77	Changed stratigraphic placement of Pouce Coupe unit in the northwest Plains area column to show the unit as the upper of two sandstone units in the lower Kaskapau Formation (lower sandstone unit is Doe Creek) below the base of the Second White Speckled Shale unit	Stratigraphic position										x		17 August, 2015	Plint (2000)
76	Changed stratigraphic placement of the top of the Kaskapau Formation in the northwest Plains area column to the base of the Bad Heart Formation where the Cardium Formation is not present	Stratigraphic position												17 August, 2015	Glass (1990)
75	Add Shaftesbury, Dunvegan, and Kaskapau formations to the left side of the west-central Plains area column	Geographic extent						x						17 August, 2015	Prior et al. (2013)
74	Changed name of Jumping Pound unit to Jumping Pound Sandstone member (informal) of the Second White Specks Formation in the southern Mountains and Foothills and southern Plains area columns	Unit name change				x	x							17 August, 2015	Hume (1938a, b), Zajac and Pedersen (2012, 2013)
73	Added Jumping Pound unit to the southern Plains area column	Geographic extent						x						17 August, 2015	Hume (1938a, b), Zajac and Pedersen (2012, 2013)
72	Added Second White Speckled Shale unit as a member within the Kaskapau Formation in the northwest Plains area column	Geographic extent										x		17 August, 2015	Plint (2000)
71	Changed name of Second White Speckled Shale unit to Second White Specks Formation in the southern, central, and northeast Plains area columns and placed the unit to correlate with the Vimy Member of the Blackstone Formation	Unit name change					x	x	x				x	17 August, 2015	Bloch et al. (1993), Plint (2000), Leckie et al. (2000), Prior et al. (2013)

Change Sequence Number	Change Description	Change Type	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
70	Added Carlile Formation (shale lithology) to the southern, east-central, and northeast Plains area columns, and placed it to correlate with the interval of the combined Opabin and Haven members and the lower part of the Cardium Formation (excluding Cardium Zone member)	Unit addition					x		x		x		17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
69	Reduced geographic extent of Blackstone Formation in the southern and west-central Plains area columns, so that it is limited to the extent of the overlying Cardium Formation	Geographic extent					x	x					17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
68	Added Blackstone Formation members (Westgate, Barons Sand, Sunkay, Vimy, Haven, Opabin) to the central and southern Mountains and Foothills area columns, with the Westgate and Barons Sand members only present in the southern Mountains and Foothills area column.	Unit addition			x	x							17 August, 2015	Wall (1967), Bloch et al. (1993), Leckie et al. (2000), Roca et al. (2008)
67	Reduced geographic extent of the Cardium Formation in the northwest Plains area column to indicate that it is present only in the subsurface and not always in the same area as the Bad Heart Formation	Geographic extent								x			17 August, 2015	Prior et al. (2013)
66	Increased geographic extent of the Bad Heart Formation in the northwest Plains area column to show that it extends to outcrop at the bedrock surface	Geographic extent								x			17 August, 2015	Prior et al. (2013)
65	Reduced geographic extent of the succession from the base of the Shaftesbury Formation (including Westgate Formation equivalent strata) to the top of the Puskwaskau Formation in the northwest Plains area column to indicate truncation by erosion at bedrock surface	Geographic extent								x			17 August, 2015	Prior et al. (2013)
64	Changed stratigraphic placement of the First White Specks Member (Niobrara Formation) and the First White Speckled Shale member (Puskwaskau and Wapiabi formations) in all Plains area columns to correlate with the Thistle Member of the Puskwaskau and Wabiabi formations in the Mountains and Foothills area columns	Stratigraphic position					x	x	x	x	x		17 August, 2015	Stott (1963), Nielsen et al. (2003), Hu and Plint (2009)

Change Sequence Number	Change Description	Change Type	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				
63	Added First White Speckled Shale (1WS) as a member of the Puskwaskau Formation and of the Wapiabi Formation in the northwest Plains and west-central Plains area columns, respectively	Geographic extent							x			x		17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
62	Added Niobrara Formation (shale lithology) to the southern, east-central, and northeast Plains area columns, with Verger (shale lithology), Medicine Hat (sandstone lithology), and First White Specks (shale lithology) members in the southern and east-central Plains area columns and only the First White Specks member added in the northeast Plains area column.	Unit addition					x			x		x		17 August, 2015	Nielsen et al. (2003), Tu et al. (2007), Prior et al. (2013)
61	Changed name of First White Speckled Shale unit to First White Specks Member (Niobrara Formation) in the southern, east-central, and northeast Plains area columns	Unit name change					x			x		x		17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
60	Removed Labiche Formation from the northeast Plains area column	Unit deletion										x		17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
59	Removed Colorado Shale unit from the southern and northeast Plains area columns	Unit deletion					x					x		17 August, 2015	Nielsen et al. (2003), Prior et al. (2013)
58	Changed unit name "Chinook" to "Chungo" in the northwest Plains area column.	Unit name change										x		17 August, 2015	Stott (1967), Glass (1990), Prior et al. (2013)
57	Changed stratigraphic placement of the top of the Wapiabi Formation (Alberta Group) in the southern Mountains and Foothills area column the top of the Thistle Member as a result of the presence of the Milk River Formation in the area	Stratigraphic position				x								17 August, 2015	Pana and Elgr (2013), Prior et al. (2013)
56	Added Milk River Formation to the southern Mountains and Foothills area column	Geographic extent				x								17 August, 2015	Pana and Elgr (2013), Prior et al. (2013)
55	Added Alderson Member (Lea Park Formation)(shale lithology) to right (eastern) part of the southern Plains area column to correlate with lower part of Lea Park Formation	Unit addition					x							17 August, 2015	Meijer Drees and Mhyr (1981), Sweet and Braman (1990), Lemiski et al. (2011)
54	Changed stratigraphic placement of the top of the Lea Park Formation in the southern and east-central Plains area columns to indicate facies transition (interfingering) with Foremost Formation and lower Belly River unit	Stratigraphic position					x			x				17 August, 2015	Glombick (2014 a, b, c, d)

Change Sequence Number	Change Description	Change Type	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
53	Changed stratigraphic placement of the base of the Lea Park Formation in the southern, west-central, east-central, and northeast Plains area columns to correlate with the base of the Hanson Member, as a result of changing the stratigraphic placement of the Milk River Formation.	Stratigraphic position					x	x	x		x		17 August, 2015	Collum (2001), Nielsen et al. (2003)
52	Added Lea Park Formation to the right (eastern) part of the southern Plains area column	Geographic extent					x						17 August, 2015	Glombick (2014 a, b, c, d)
51	Changed stratigraphic placement of the Milk River Formation in the southern Plains area column to correlate with the Hanson Member (Wapiapi Formation) in the central Mountains and Foothills area column, and to show unconformity gap (correlative to the Chungo Member interval) between the top of the Milk River Formation and the base of the Pakowki Formation	Stratigraphic position				x							17 August, 2015	Collum (2001), Payenberg et al. (2002), Nielsen et al. (2003)
50	Added Puskwaskau Formation with Dowling, Thistle, Hanson, Chungo, and Nomad members to the northern Mountains and Foothills area column	Geographic extent		x									17 August, 2015	Prior et al. (2013)
49	Deleted Wapiabi Formation (Alberta Group) from the northern Mountains and Foothills area column	Geographic extent		x									17 August, 2015	Prior et al. (2013)
48	Changed unit lithology of Marshybank Formation (Smoky Group) in the northern Mountains and Foothills area column and Marshybank Member (Wapiabi Formation) in the central Mountains and Foothills area column from predominantly shale (grey) to sandstone and siltstone (yellow)	Unit lithology		x	x								17 August, 2015	Plint et al. (1990)
47	Replaced Bad Heart Member (Wapiabi Formation) with Marshybank Formation (Smoky Group) in the northern Mountains and Foothills area column and with Marshybank Member (Wapiabi Formation) in the central and southern Mountains and Foothills area columns	Unit name change		x	x	x							17 August, 2015	Plint et al. (1990)
46	Changed stratigraphic rank of Muskiki Member (Wapiti Formation) to Muskiki Formation (Smoky Group) in the northern Mountains and Foothills area column	Unit rank change		x									17 August, 2015	Stott (1967)

Change Sequence Number	Change Description	Change Type	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				
45	Changed spelling of "Badheart" to "Bad Heart" in all Mountains and Foothills area columns and the northwest Plains area column	Spelling correction		x	x	x						x		17 August, 2015	McLearn (1919)
44	Added Connelly Creek, Lundbeck, and Drywood Creek formations (all sandstone lithology) to Belly River Group in the southern Mountains and Foothills area column and placed the units to correlate with the Foremost, Oldman, and Dinosaur Park formations, respectively, in the southern Plains area column	Unit addition				x								17 August, 2015	Jerzykiewicz and Norris (1994), Hamblin (2010), Prior et al. (2013), Pana and Elgr (2013)
43	Added Dinosaur Park formation (sandstone lithology) to the left (western) part of the southern Plains area column, the right part of the east-central area column, and the west-central Plains area column	Unit addition					x	x	x					17 August, 2015	Eberth and Hamblin (1993), Prior et al. (2013)
42	Added lower Belly River unit and Oldman and Dinosaur Park formations (all sandstone lithology) to the central Plains area columns	Unit addition						x	x					17 August, 2015	Eberth and Hamblin (1993), Prior et al. (2013), Glombick (2014 a, b, c, d)
41	Removed Basal Belly River, Brosseau, Victoria, and Ribstone units from the central Plains area columns.	Unit deletion						x	x					17 August, 2015	Hamblin and Abrahamson (1996), Glombick (2014 a, b, c, d), Prior et al. (2013)
40	Added Foremost, Oldman, and Dinosaur Park formations (Belly River Group) to the right (eastern) part of the southern Plains area column.	Geographic extent					x							17 August, 2015	Hamblin and Abrahamson (1996), Prior et al. (2013)
39	Replaced Judith River Formation in the southern Plains area column with Belly River Group	Unit name change					x							17 August, 2015	Hamblin and Abrahamson (1996)
38	Changed rank of Belly River Formation to Belly River Group in the southern Mountains and Foothills area column	Unit rank change				x								17 August, 2015	Jerzykiewicz and Norris (1994)
37	Changed stratigraphic placement of the top of the Bearpaw Formation in the southern and east-central Plains area columns to show younging towards the east	Stratigraphic position					x		x					17 August, 2015	Hamblin (1997, 1998, 2004, 2010)
36	Subdivided Horseshoe Canyon Formation in the west-central Plains area column into Strathmore, Drumheller, Horsethief, Morrin, Tolman, Carbon, and Whitemud members	Unit addition						x						17 August, 2015	Eberth and Braman (2012)

Change Sequence Number	Change Description	Change Type	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			
35	Changed stratigraphic placement of the base of the Eastend Formation in the southern Plains area column to correlate with the base of the Blood Reserve Formation and becoming progressively younger to the east in conformable relationship with underlying and laterally correlative Bearpaw Formation	Stratigraphic position					x						17 August, 2015	Glass (1990)
34	Included Whitemud unit in the west-central Plains area column as a member of the Horseshoe Canyon Formation	Unit rank change							x				17 August, 2015	Eberth and Braman (2012)
33	Changed Whitemud unit lithology in the southern and west-central Plains area columns from shale (grey) to sandstone and siltstone (yellow)	Unit lithology					x	x					17 August, 2015	Glass (1990), Prior et al. (2013)
32	Subdivided the Wapiti Formation in the northwest Plains area column into a lower and an upper unit with the boundary placed approximately at the level of the base of the Bearpaw Formation	Unit addition									x		17 August, 2015	Prior et al. (2013)
31	Changed stratigraphic placement of the top of the Wapiti Formation in the northwest Plains area column to be below top of Horseshoe Canyon Formation in the central Plains area column	Stratigraphic position									x		17 August, 2015	Prior et al. (2013)
30	Removed Wapiti Formation from the northeast Plains area column	Geographic extent										x	17 August, 2015	Prior et al. (2013)
29	Added "Wapiti/Brazeau" (Wapiti or Brazeau formations) on the left side of the west-central Plains area column with the upper boundary correlative with the tops of the Whitemud and Horseshoe Canyon formations	Geographic extent							x				17 August, 2015	Prior et al. (2013)
28	Subdivided the Brazeau Formation in the northern and central Mountains and Foothills area columns into a lower and an upper unit with the boundary placed approximately at the level of the base of the Bearpaw Formation	Unit addition		x	x								17 August, 2015	Hamblin (2010)
27	Added Entrance Conglomerate Member to Coalspur Formation in the northern Mountains and Foothills area column correlative with Frenchman and lower Scollard formations	Unit addition		x									17 August, 2015	Jerzykiewicz and McLean (1980), Jerzykiewicz (1997)
26	Changed stratigraphic placement of the top of the Willow Creek Formation in the southern Mountains and Foothills and southern Plains area columns as a result of the change in stratigraphic position of the Porcupine Hills Formation	Stratigraphic position				x	x						17 August, 2015	Lerbekmo and Sweet (2000), Scott et al. (2013)

Change Sequence Number	Change Description	Change Type	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			
25	Changed stratigraphic placement of Porcupine Hills Formation in the southern Mountains and Foothills and Southern Plains area columns to be correlative with the upper part of the upper Scollard Formation and the lower part of the Paskapoo Formation	Stratigraphic position				x	x						17 August, 2015	Lerbekmo and Sweet (2000), Scott et al. (2013)
24	Removed Paskapoo, Scollard, and Horseshoe Canyon formations from the southern Plains area column	Geographic extent					x						17 August, 2015	Prior et al. (2013)
23	Changed stratigraphic placement of the top of the Paskapoo Formation in the west-central Plains area column to extend into the earliest Eocene	Stratigraphic position						x					17 August, 2015	Leberkmo et al. (2008)
22	Added Haynes, Lacombe, and Dalehurst members (all sandstone and siltstone lithology) as subdivisions of the Paskapoo Formation in the west-central Plains area column	Unit addition						x					17 August, 2015	Demchuck and Hills (1991)
21	Deleted "Obed" coal zone as subdivision of Paskapoo Formation in the northern Mountains and Foothills area column	Unit deletion		x									17 August, 2015	n/a
20	Changed unit name "Swan Hills Gravels" to "Swan Hills" gravel and sand deposit in the northwest Plains area column	Unit name change								x			17 August, 2015	Vonhof (1969), Edwards and Scafe (1996)
19	Added Obed Mountain gravel and sand deposit in the west-Central Plains area column at same stratigraphic level as Cypress Hills Formation	Unit addition						x					17 August, 2015	Vonhof (1969), Edwards and Scafe (1996)
18	Placed Cypress Hills Formation in the southern Plains area column to range in stratigraphic position from upper Eocene to lower Miocene	Stratigraphic position					x						17 August, 2015	Storer (1978, 1996)
17	Deleted "Swift Current" unit in the southern Plains area column	Unit deletion					x						17 August, 2015	Russel (1950), Christiansen (1959), Vonhof (1969), Storer (1996), Hartman (2015)
16	Added Pelican Mountain gravel and sand deposit to the northeast Plains area column at same stratigraphic level as Hand Hills Formation	Unit addition									x		17 August, 2015	Edwards and Scafe (1996)
15	Added Halverson Ridge gravel and sand deposit to the northwest Plains area column at same stratigraphic level as Hand Hills Formation	Unit addition								x			17 August, 2015	Edwards and Scafe (1996)

Change Sequence Number	Change Description	Change Type	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			
14	Added Whitecourt Mountain gravel and sand deposit to the west-central Plains area column at same stratigraphic level as Hand Hills Formation	Unit addition							x				17 August, 2015	Edwards and Scafe (1996)
13	Added Del Bonita and Arrowwood gravel and sand deposits to the southern Plains area column at same stratigraphic level as Hand Hills Formation	Unit addition						x					17 August, 2015	Collier and Thom (1919), Edwards and Scafe (1996), Barendregt et al. (1997), Leckie et al. (2006)
12	Placed Hand Hills Formation in southern Plains area column to range in stratigraphic position from upper Miocene to lower Pliocene	Stratigraphic position						x					17 August, 2015	Storer (1972)
11	Added Empress Formation (gravel and sand lithology) to all Alberta Plains area columns.	Unit addition					x	x	x	x	x		17 August, 2015	Whitaker and Christiansen (1972), Andriashek (1985), Andriashek and Fenton (1989), Fenton et al. (1994)
10	Added Bronson Lake (BL), Bonnyville (B), Marie Creek (MC), and Grand Centre (GC) labels to till units of Laurentide origin in the east-central, northwest, and northeast Plains area columns	Unit name addition							x	x	x		17 August, 2015	Andriashek and Fenton (1989), Fenton et al. (1994)
9	Added depiction of non-stratified interglacial sediments (clay, silt, sand) in the southern Mountains and Foothills, southern Plains, and east-central, northwest, and northeast Plains area columns; not labelled, but symbolized and explained in legend	Unit addition				x	x		x	x	x		17 August, 2015	na
8	Added depiction of till units of Laurentide origin (with labels) in all geographic area columns	Unit addition	x										17 August, 2015	na
7	Added depiction of till units of Cordilleran origin (with labels) to all Alberta Mountains and Foothills area columns and the southern and west-central Plains areas	Unit addition		x	x	x	x	x					17 August, 2015	Hartman (2015)
6	Removed unit name "Laurentide Drift" from all geographic area columns and replaced depiction of the respective stratigraphic succession with a more appropriate representation of Cordilleran and Laurentide till units, nonstratified interglacial sediments, and upper Pliocene through Quaternary gravel and sand deposits	Unit name deletion	x										17 August, 2015	Andriashek and Fenton (1989), Fenton et al. (1994), Jackson et al. (2011), Hartman (2015)

Change Sequence Number	Change Description	Change Type	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			
5	Removed all resource occurrence symbols	Symbol deletion	x										17 August, 2015	na
4	Increased resolution of chronostratigraphic subdivisions from the beginning of the Devonian to the end of the Cretaceous to the stage/age level following the International Commission on Stratigraphy (ICS) chronostratigraphic chart (version 2015/01)	Presentation format											17 August, 2015	Cohen et al. (2013 updated)
3	Brought chronostratigraphic subdivisions (naming and boundary numerical age dates) into compliance with International Commission on Stratigraphy (ICS) chronostratigraphic chart (version 2015/01), with the exception of the Cambrian subdivisions (i.e., Lower, Middle, Upper Cambrian), which follow the ICS chart of 2004	Presentation format											17 August, 2015	Gradstein et al. (2004), Cohen et al. (2013 updated)
2	Divided central Plains area column into west-central and east-central Plains area columns	Presentation format						x	x				17 August, 2015	Prior et al. (2013)
1	Changed two-fold subdivision of Mountains and Foothills area columns into northern and south-central Mountains and Foothills area columns to three-fold subdivision into northern, central, and southern Mountains and Foothills area columns	Presentation format		x	x	x							17 August, 2015	Prior et al. (2013)

2. References

- Adair, R.N. (1986): The pyroclastic rocks of the Crowsnest Formation, Alberta; M.Sc. thesis, University of Alberta, 196 p.
- Andriashek, L.D. (1985): Quaternary stratigraphy of the Sand River, NTS 73L; M.Sc. thesis, University of Alberta, 387 p.
- Andriashek, L.D. and Fenton, M.M. (1989): Quaternary stratigraphy and surficial geology of the Sand River area 73L; Alberta Research Council, ARC/AGS Bulletin 57, 154 p., URL http://ags.gov.ab.ca/publications/abstracts/BUL_057.html [August 2015].
- Aitken, J.D. (1969): Documentation of the sub-Cambrian unconformity, Rocky Mountains main ranges, Alberta; Canadian Journal of Earth Sciences, v. 6, no. 2, p. 193-200.
- Aitken, J.D. (1993): Cambrian and lower Ordovician - Sauk Sequence; Subchapter 4B *in* Sedimentary cover of the craton in Canada, D.F. Stott and J.D. Aitken (ed.), Geological Survey of Canada, no. 5, p. 96-124.
- Aitken, J.D. (1997): Stratigraphy of the Middle Cambrian platformal succession, southern Rocky Mountains; Geological Survey of Canada, Bulletin 398, 322 p., URL <http://geogratias.gc.ca/api/en/nrcan-rncan/ess-sst/fd27280a-2e8e-532d-80f7-7a6da91f9218.html> [August 2015].
- Aitken, J.D. and Greggs, R.G. (1967): Upper Cambrian formations, southern Rocky Mountains of Alberta, an interim report; Geological Survey of Canada, Paper 66-49, 91 p.
- Asgar-Deen, M., Riediger, C. and Hall, R. (2004): The Gordondale Member: designation of a new member in the Fernie Formation to replace the informal “Nordegg Member” nomenclature of the subsurface of west-central Alberta; Bulletin of Canadian Petroleum Geology, v. 52, no. 3, p. 201-214.
- Badgley, P.C. (1952): Notes on the subsurface stratigraphy and oil and gas geology of the Lower Cretaceous series in central Alberta; Geological Survey of Canada, Paper 52-11, 12 p., URL <http://open.canada.ca/data/en/dataset/71bb572e-4d86-5b3a-bdd1-deedce715488> [August 2015].
- Bamber, E.W. and Macqueen, R.W. (1979): Upper Carboniferous and Permian stratigraphy of the Monkman Pass and southern Pine Pass areas, northeastern British Columbia; Geological Survey of Canada, Bulletin 30, 27 p.
- Barendregt, R.W., Vreeken, W.J., Irving, E. and Baker, J. (1997): Stratigraphy and paleomagnetism of the late Miocene Davis Creek silt, east block of the Cypress Hills, Saskatchewan; Canadian Journal of Earth Sciences, v. 34, no. 10, p. 1325–1332.

- Becker, S. (1997): Depositional environments, provenance and sequence stratigraphy of the type Sassenach Formation, Jasper, Alberta; M.Sc thesis, McGill University, 238 p.
- Belyea, H.R. (1964): Chapter 6 - Upper Devonian, Part II - Woodbend, Winterburn and Wabamun Groups; *in* Geological history of Western Canada, McCrossan, R.G. and Glaister, R.P. (ed.), The Alberta Society of Petroleum Geologists, Canadian Sedimentary Basins Symposium, p. 66-88.
- Belyea, H.R. and McLaren, D.J. (1962): Upper Devonian formations, southern part of Northwest Territories, northeastern British Columbia and northwestern Alberta; Geological Survey of Canada, Paper 61-29, 81 p., URL
<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=101168> [August 2015].
- Bloch, J., Schröder-Adams, C., Leckie, D.A., McIntyre, D.J., Craig, J. and Staniland, M. (1993): Revised stratigraphy of the lower Colorado Group (Albian to Turonian), western Canada; Bulletin of Canadian Petroleum Geology, v. 41, no. 3, p. 325-348.
- Bloch, J.D., Schröder-Adams, C., Leckie, D.A., Craig, J. and McIntyre, D.J. (1999): Sedimentology, micropaleontology, geochemistry, and hydrocarbon potential of shale from the Cretaceous lower Colorado Group in western Canada; Geological Survey of Canada, Bulletin 531, 185 p., URL
<http://geogratia.gc.ca/api/en/nrcan-rncan/ess-sst/b2a0999e-0f37-5903-8f40-1347bf3cce8e.html> [August 2015].
- Burwash, R.A., McGregor, C.R. and Wilson, J. (1994): Precambrian basement beneath the Western Canada Sedimentary Basin; *in* Geological Atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), p. 48-56, URL
http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch05/ch_05.html [August 2015].
- Cant, D.J. (2011): Mannville Group stratigraphy, sedimentology and petroleum geology; Canadian Society of Petroleum Geologists, CSPG field seminars and short courses, May 16-18, 2011, SC22051611, 200 p.
- Cant, D.J. and Abrahamson, B. (1996): Regional distribution and internal stratigraphy of the Lower Mannville; Bulletin of Canadian Petroleum Geology, v. 44, no. 3, p. 508-529.
- Caplan, M.L. and Bustin, R.M. (1998): Sedimentology and sequence stratigraphy of Devonian-Carboniferous strata, southern Alberta; Bulletin of Canadian Petroleum Geology, v. 46, no. 4, p. 487-514.
- Charlesworth, H.A.K., Weiner, J.L., Akehurst, A.J., Bielenstein, H.U., Evans, C.R., Griffiths, R.E., Remington, D.B., Stauffer, M.R. and Steiner, J. (1967): Precambrian geology of the Jasper region, Alberta; Research Council of Alberta, Alberta Geological Survey, Bulletin 23, 74 p., URL
http://ags.gov.ab.ca/publications/abstracts/BUL_023.html [August 2015].
- Crickmay, C.H. (1957): Elucidation of some western Canada Devonian formations; published by the author, Imperial Oil Limited, Calgary, Alberta, 14 p.

- Christiansen, E.A. (1959): Glacial geology of the Swift Current area, Saskatchewan; Saskatchewan Geological Survey, Report 32, 62 p., URL <<http://economy.gov.sk.ca/Report32>> [August 2015].
- Christopher, J.E. (1984): The Lower Cretaceous Mannville Group, northern Williston Basin region, Canada; *in* The Mesozoic of middle North America, D.F. Stott and D.J. Glass (ed.), Canadian Society of Petroleum Geologists, Memoir 9, p. 109-126.
- Cohen, K.M., Finney, S.C., Gibbard, P.L. and Fan, J.-X. (2013 updated): The ICS International Chronostratigraphic Chart; Episodes 36, p. 199-204, URL <<http://www.stratigraphy.org/ICSchart/ChronostratChart2015-01.pdf>> [August 2015].
- Collier, A.J. and Thom, W.T. (1918): The Flaxville Gravel and its relation to other terrace gravels of the northern Great Plains; U. S. Geological Survey, Professional Paper 108, 5 p., URL <<http://pubs.er.usgs.gov/publication/pp108J>> [August 2015].
- Collom, C. (2001): Systematic paleontology, biostratigraphy, and paleoenvironmental analysis of the Upper Cretaceous Wapiabi Formation and equivalents, Alberta and British Columbia, western Canada; Ph.D. thesis, University of Calgary, Alberta, 558 p., URL <<http://prism.ucalgary.ca/handle/1880/40784>> [August 2015].
- Cutler, W.G. (1983): Stratigraphy and sedimentology of the Upper Devonian Grosmont Formation, northern Alberta; Bulletin of Canadian Petroleum Geology, v. 31, no. 4, p. 282-325.
- Davies, G.R., Moslow, T.F. and Sherwin, M.D. (1997): The Lower Triassic Montney Formation, west-central Alberta; Bulletin of Canadian Petroleum Geology, v. 45, no. 4, p. 474-505.
- Desjardins, P.R., Pratt, B.R., Buatois, L.A. and Mangano, M.G. (2010): Stratigraphy and sedimentary environments of the Lower Cambrian Gog Group in the southern Rocky Mountains of western Canada: transgressive sandstones on a broad continental margin; Bulletin of Canadian Petroleum Geology, v. 58, no. 4, p. 404-439.
- Demchuk, T.D. and Hills, L.V. (1991): A re-examination of the Paskapoo Formation in the central Alberta Plains: the designation of three new members; Bulletin of Canadian Petroleum Geology, v. 39, no. 3, p. 270-282.
- Eberth, D.A. and Braman, D.R. (2012): A revised stratigraphy and depositional history for the Horseshoe Canyon Formation (Upper Cretaceous), southern Alberta Plains; Canadian Journal of Earth Sciences, v. 49, no. 9, p. 1053-1086.
- Eberth, D.A. and Hamblin, A.P. (1993): Tectonic, stratigraphic, and sedimentologic significance of a regional discontinuity in the upper Judith River Group (Belly River wedge) of southern Alberta, Saskatchewan, and northern Montana; Canadian Journal of Earth Sciences, v. 30, no. 1, p. 174-200.
- Edwards, D.E., Barclay, J.E., Gibson, D.W., Kville, G.E. and Halton, E. (1994): Triassic strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 259-275, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch16/ch_16.html> [August 2015].

- Edwards, D.W.A. and Scafe, D. (1994): Mapping and resource evaluation of the Tertiary and preglacial sand and gravel formations of Alberta; Alberta Research Council, Alberta Geological Survey, Open File Report 1994-06, 246 p., URL <http://ags.gov.ab.ca/publications/abstracts/OFR_1994_06.html> [August 2015].
- Elliot, D.K., Dineley, D.L. and Johnson, H.G. (2000): A vertebrate fauna from the Middle Devonian Yahatinda Formation of southwestern Canada; *Journal of Paleontology*, v. 74, p. 123-132.
- Fenton, M.M., Schreiner, B.T., Nielsen, E. and Pawlowicz, J.G. (1994): Quaternary geology of the western Plains; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 413-420, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch26/ch_26.html> [August 2015].
- Fermor, P.R. and Price, R.A. (1983): Stratigraphy of the lower Belt-Purcell Supergroup in the Lewis Thrust Sheet, southeastern British Columbia and southwestern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 31, no.3, p. 169-194.
- Frebold, H.W.L. (1957): Jurassic Fernie Group in the Canadian Rocky Mountains and Foothills; Geological Survey of Canada, Memoir 287, 197 p., URL <<http://geogratis.gc.ca/api/beta/en/nrcan-rncan/ess-sst/11a9f888-bfc4-50bf-af6d-29ddc729f4b4.html>> [August 2015].
- Frebold, H. (1969): Subdivision and facies of the Lower Jurassic rocks in the southern Canadian Rocky Mountains and Foothills; *Geological Association of Canada, Proceedings*, v. 20, p. 76-89.
- Geldsetzer, H.H.J. (1987): Geology and structure cross-section, Mountain Park, Alberta; Excursion Guide B4, Canadian Society of Petroleum Geologists, Calgary.
- Gibson, D.W. (1968): Triassic stratigraphy between the Athabasca and Smoky rivers of Alberta; Geological Survey of Canada, Paper 67-65, 114 p., URL <<http://open.canada.ca/data/en/dataset/195a308e-1240-53dc-80b2-00735c21fb95>> [August 2015].
- Gibson, D.W. (1985): Stratigraphy, sedimentology and depositional environments of the coal-bearing Jurassic-Cretaceous Kootenay Group, Alberta and British Columbia; Geological Survey of Canada, Bulletin 357, 108 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/74926bca-dfcf-5026-9b5c-51be1b5a6959.html>> [August 2015].
- Gibson, D.W. and Poulton, T.P. (1994): Field guide to the Triassic and Jurassic stratigraphy and depositional environments of the Rocky Mountain Foothills and Front Ranges in the Banff, Jasper and Cadomin areas of Alberta; Geological Survey of Canada, Open File 2780, 85 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/7249255a-abdc-5efc-9672-b9554b5deb0e.html>> [August 2015].
- Glombick, P.M. (2014a): Bedrock geology of the Medicine Hat area (NTS 72L); Alberta Energy Regulator, AER/AGS Map 567, scale 1:250 000, URL <http://ags.gov.ab.ca/publications/abstracts/MAP_567.html> [August 2015].

- Glombick, P.M. (2014b): Bedrock geology of the Foremost area (NTS 72E); Alberta Energy Regulator, AER/AGS Map 568, scale 1:250 000, URL http://ags.gov.ab.ca/publications/abstracts/MAP_568.html [August 2015].
- Glombick, P.M. (2014c): Bedrock geology of the Wainwright area (NTS 73D); Alberta Energy Regulator, AER/AGS Map 569, scale 1:250 000, URL http://ags.gov.ab.ca/publications/abstracts/MAP_569.html [August 2015].
- Glombick, P.M. (2014d): Bedrock geology of the Vermilion Area (NTS 73E); Alberta Energy Regulator, AER/AGS Map 570, scale 1:250 000, URL http://ags.gov.ab.ca/publications/abstracts/MAP_570.html [August 2015].
- Glass, D.J. (1990): Lexicon of Canadian stratigraphy. Volume 4. Western Canada, including eastern British Columbia, Alberta, Saskatchewan and southern Manitoba; Canadian Society of Petroleum Geologists, Calgary, Alberta, 772 p.
- Gradstein, F.M., Ogg, J.G., Smith, A.G., Agterberg, F.P., Bleeker, W., Cooper, R.A., Davydov, V., Gibbard, P., Hinnov, L.A., House, M.R., Lourens, L., Luterbacher, H-P., McArthur, J., Melchin, M.J., Robb, L.J., Sadler, P.M., Shergold, J., Villeneuve, M., Wardlaw, B.R., Ali, J., Brinkhuis, H., Hilgen, F.J., Hooker, J., Howarth, R.J., Knoll, A.H., Laskar, J., Monechi, S., Powell, J., Plumb, K.A., Raffi, I., Röhl, U., Sanfilippo, A., Schmitz, B., Shackleton, N.J., Shields, G.A., Strauss, H., Van Dam, J., Veizer, J., Van Kolfshoten, Th. and Wilson, D. (2004): Geological Time Scale 2004; Cambridge University Press, 589 p.
- Greiner, H.R. (1956): Methy Dolomite of northeastern Alberta; Middle Devonian reef formation; American Association of Petroleum Geologists, Bulletin, v. 40, no. 9, p. 2057-2080.
- Hage, C.O. (1943): Beaver Mines (west of 5th Meridian), Alberta; Geological Survey of Canada, "A" Series Map 739A, scale 1:63 360 or 1 inch to 1 mile, URL <http://geogratis.gc.ca/api/en/nrcan-ncan/ess-sst/e3331fab-3df7-50f3-921e-a7cce0ff2cdb.html> [August 2015].
- Halbertsma, H.L. (1994): Devonian Wabamun Group of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 203-220, URL http://www.ags.gov.ab.ca/publications/wesb_atlas/a_ch13/ch_13.html [August 2015].
- Halbertsma, H.C. and Meijer Drees, N.C. (1987): Wabamun limestone sequences in north-central Alberta; *in* Devonian lithofacies and reservoir styles in Alberta, F.F. Krause and O.G. Burrowes (ed.), Second International Symposium on the Devonian System, Canadian Society of Petroleum Geologists, p. 21-37.
- Hall, R.L. (1984): Lithostratigraphy and biostratigraphy of the Fernie Formation (Jurassic) in the southern Canadian Rocky Mountains; *in* The Mesozoic of middle North America, D.F. Stott and D.J. Glass (ed.), Canadian Society of Petroleum Geologists, Memoir 9, p. 233-247.

- Hall, R.L., McNicoll, V., Gröcke, D., Craig, J. and Johnston, K. (2004): Integrated stratigraphy of the lower and middle Fernie Formation in Alberta and British Columbia, western Canada; *Rivista Italiana di Paleontologia e Stratigrafia*, v. 110, p. 61–68.
- Hamblin, A.P. (1997): Regional distribution and dispersal of the Dinosaur Park Formation, Belly River Group, surface and subsurface of southern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 45, no. 3, p. 377-399.
- Hamblin, A.P. (1998): Edmonton Group/St. Mary River Formation: summary of literature and concepts; Geological Survey of Canada, Open File 3578, 28 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/8c727cb3-6118-5311-b796-ac72fbd764ed.html>> [August 2015].
- Hamblin, A.P. (2004): The Horseshoe Canyon Formation in southern Alberta: surface and subsurface stratigraphic architecture, sedimentology, and resource potential; Geological Survey of Canada, Bulletin 578, 180 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/b926ca2a-b2a1-54ee-bb94-398fed9ee4ec.html>> [August 2015].
- Hamblin, A.P. (2010): Scollard/Willow Creek/Coalspur formations: summary of literature and concepts; Geological Survey of Canada, Open File 6555, 25 p., URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=285401>> [August 2015].
- Hamblin, A.P. and Abrahamson, B.W. (1996): Stratigraphic architecture of “Basal Belly River” cycles, Foremost Formation, Belly River Group, subsurface of southern Alberta and southwestern Saskatchewan; *Bulletin of Canadian Petroleum Geology*, v. 44, no. 4, p. 654-673.
- Handcock, P. R., Hopkins, J. C., Strobl, R. S. and Dolby, G. (1993): Age of Jurassic valley fill successions, Medicine River and Gilby areas, central Alberta; *Canadian Society of Petroleum Geologists, Program and Abstracts*, p. 129 [abstract].
- Hartman, G. (2015): Synthesis of a post-Laramide stratigraphic framework of the South Saskatchewan River Basin, Alberta, in support of hydrostratigraphic modelling; Alberta Energy Regulator, AER/AGS Open File Report 2015-01, 36 p., URL <http://ags.gov.ab.ca/publications/abstracts/OFR_2015_01.html> [August 2015].
- Hathway, B., Dolby, G., McNeil, D.H., Kamo, S.L., Heizler, M.T. and Joyce, N. (2013): Revised stratigraphy, regional correlations and new bentonite radiometric ages for the Albian Loon River Formation, Fort St. John Group, northwestern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 61, no. 4, p. 331-358.
- Hayes, B.J.R., Christopher, J.E., Rosenthal, L., Los, G., McKercher, B., Minken, D., Tremblay, Y.M. and Fennell, J. (1994): Cretaceous Mannville Group of the Western Canada Sedimentary Basin; in *Geological atlas of the Western Canada Sedimentary Basin*, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 317-334, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch19/ch_19.html> [August 2015].

- Hein, F.J. and McMechan, M.E. (1994): Proterozoic and Lower Cambrian strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 57-67, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch06/ch_06.html> [August 2015].
- Hein, F.J. and Nowlan, G.S. (1998): Regional sedimentology, conodont biostratigraphy and correlation of Middle Cambrian – Lower Ordovician (?) strata of the “Finnegan” and Deadwood formations, Alberta subsurface, Western Canada Sedimentary Basin; *Bulletin of Canadian Petroleum Geology*, v. 46, no. 2, p. 166-188.
- Hein, F.J., Berhane, H. and Weiss, J.A. (2007): Cold Lake Oil Sands Area: formation picks and correlation of associated stratigraphy; Alberta Energy and Utilities Board, EUB/AGS Geo-Note 2006-03, 11 p., URL <http://ags.gov.ab.ca/publications/abstracts/GEO_2006_03.html> [August 2015].
- Hein, F.J., Andrews, G.D., Breakey, E.C., Ingstrup, K. and Palmer, B.R. (1998a): Cambrian stratigraphy and sedimentology; *in* The Lower Paleozoic: a new frontier in the Western Canada Basin, part 1: report to partners 1993-1994, G.S. Nowlan (comp.), Geological Survey of Canada, Open File 3416, p. 2-1 to 2-36, URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=209908>> [August 2015].
- Hein, F.J., Nowlan, G.S., Coskun, G.R., DePaoli, G.R., Palmer, B.R. and Addison, G.D. (1998b): Cambrian stratigraphy; *in* The Lower Paleozoic: a new frontier in the Western Canada Basin, part 2, G.S. Nowlan (comp.), Geological Survey of Canada, Open File 3603, p. 2-1 to 2-21, URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/downloade.web&search1=R=209922>> [August 2015].
- Henderson, C.M., Richards, B.C. and Barclay, J.E. (1994): Permian strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 251-258, URL <http://www.ags.gov.ab.ca/publications/wcsb_atlas/a_ch15/ch_15.html#ref> [August 2015].
- Henderson, C.M., Dunn, L., Fossenier, K. and Moore, D. (2002): Sequence biostratigraphy and paleogeography of the Pennsylvanian-Permian Belloy Formation and outcrop equivalents in Western Canada; *in* Carboniferous and Permian of the World, L.V. Hills, C.M. Henderson and E.W. Bamber (ed.), Canadian Society of Petroleum Geologists, Memoir 19, p. 934-947.
- Henderson, C.M., Richards, B.C. and Johnston, D. (2009): ICOS 2009 Rocky Mountain Fieldtrip; International Commission on Stratigraphy, International Union of Geological Sciences, Newsletter of the Subcommittee on Permian Stratigraphy, no. 53, supplement 2, 115 p.
- Henderson, C.M., Zubin-Stathopoulos, K., Dean, G., Spratt, D. and Chau, Y.P. (2010): Tectonic history, biostratigraphy and fracture analysis of upper Paleozoic and lowest Triassic strata of east-central British Columbia (NTS 093I, O, P): preliminary report; *in* Summary of Activities 2009, Geoscience

- BC Report 2010-1, p. 259-270, URL
<<http://www.geosciencebc.com/s/SummaryofActivities.asp?ReportID=379075>> [August 2015].
- Hopkins, J. C. (1981): Sedimentology of quartzose sandstones of Lower Mannville and associated units, Medicine River area, central Alberta; *Bulletin of Canadian Petroleum Geology*, v. 29, no. 1, p. 12-41.
- Hopkins, J. C., Cupido, P. and Handcock, P. (1998): Reservoir development in a marine valley-fill complex, Medicine River Jurassic "D" Pool; *in* Oil and gas pools of the Western Canada Sedimentary Basin, J. R. Hogg (ed.), Canadian Society of Petroleum Geologists, Special Publication S-51, p. 39-49.
- Hu, Y.G. and Plint, A.G. (2009): An allostratigraphic correlation of a mudstone-dominated, syn-tectonic wedge: the Puskwaskau Formation (Santonian-Campanian) in outcrop and subsurface, Western Canada Foreland Basin; *Bulletin of Canadian Petroleum Geology*, v. 57, no. 1, p. 1-33.
- Hume, G.S. (1938a): Preliminary report, Turner Valley, Alberta; Canada Department of Mines and Resources, Mines and Geology Branch, Bureau of Geology and Topography, Geological Survey, Paper 38-7, 28 p.
- Hume, G.S. (1938b): Preliminary report, the stratigraphy and structure of southern Turner Valley, Alberta; Canada Department of Mines and Resources, Mines and Geology Branch, Bureau of Geology and Topography, Geological Survey, Paper 38-22, 21 p., URL
<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download_e.web&search1=R=101209> [August 2015].
- Jackson, L.E., Andriashek, L.D. and Phillips, F.M. (2011): Limits of successive Middle and Late Pleistocene continental ice sheets, Interior Plains of southern and central Alberta and adjacent areas; *in* Developments in Quaternary science, J. Ehlers, P.L. Gibbard and P.D. Hughes (ed.), v. 15, p. 575-589.
- Jerzykiewicz, T. and McLean, J.R. (1980): Lithostratigraphic and sedimentological framework of coal-bearing Upper Cretaceous-lower Tertiary strata, Coal Valley area, central Alberta Foothills; Geological Survey of Canada, Paper 79-12, 47 p., URL
<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/full_e.web&search1=R=102161> [August 2015].
- Jerzykiewicz, T. (1997): Stratigraphic framework of the uppermost Cretaceous to Paleocene strata of the Alberta Basin; Geological Survey of Canada, Bulletin 510, 121 p., URL
<http://geoscan.ess.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/geoscanfastlink_e.web&search1=R=208902> [August 2015].
- Jerzykiewicz, T. and Norris, D.K. (1994): Stratigraphy, structure and syntectonic sedimentation of the Campanian 'Belly River' clastic wedge in the southern Canadian Cordillera; *Cretaceous Research*, v. 15, p. 367-399.

- Johnston, D.I., Henderson, C.M. and Schmidt, M.J. (2010): Upper Devonian to Lower Mississippian conodont biostratigraphy of uppermost Wabamun Group and Palliser Formation to lowermost Banff and Lodgepole formations, southern Alberta and southeastern British Columbia, Canada: implications for correlations and sequence stratigraphy; *Bulletin of Canadian Petroleum Geology*, v. 58, no. 4, p. 295-341.
- Kent, D.M. (1959): The Lloydminster oil and gas field, Alberta; M.Sc. thesis, University of Saskatchewan, 56 p., URL <<http://ecommons.usask.ca/handle/10388/etd-08072012-105552>> [August 2015].
- Lerbekmo, J.F., and Sweet, A.R. (2000): Magnetostratigraphy and biostratigraphy of the continental Paleocene in the Calgary area, southwestern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 48, no. 4, p. 285–306.
- Leberkmo, J.F., Heaman, L.M., Baadsgaard, H., Muehlenbachs, K., Evans, M.E. and Sweet, A.R. (2008): Normal polarity magnetosubchrons in 24r and the age of the Paleocene-Eocene boundary; *Canadian Journal of Earth Sciences*, v. 45, no. 7, p. 781-793.
- Leckie, D.A. (2006): Tertiary fluvial gravels and evolution of the western Canadian prairie landscape; *Sedimentary Geology*, v. 190, p. 139–158.
- Leckie, D.A. and Burden, E.T. (2001): Stratigraphy, sedimentology, and palynology of the Cretaceous (Albian) Beaver Mines, Mill Creek, and Crowsnest formations (Blairmore Group) of southwestern Alberta; *Geological Survey of Canada Bulletin* 563, 104 p., URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=212186>> [August 2015].
- Leckie, D.A. and Cheel, R.J. (1997): Sedimentology and depositional history of Lower Cretaceous coarse-grained clastics, southwest Alberta and southeast British Columbia; *Bulletin of Canadian Petroleum Geology*, v. 45, no. 1, p. 1-24.
- Leckie, D.A., Schröder-Adams, C.J. and Bloch, J. (2000): The effect of paleotopography on the late Albian and Cenomanian sea-level record of the Canadian Cretaceous interior seaway; *Geological Society of America Bulletin*, v. 112, no. 8, p. 1179-1198.
- Leier, A.L. and Gehrels, G.E. (2011): Continental-scale detrital zircon provenance signatures in Lower Cretaceous strata, western North America; *Geology*, v. 39, no. 4, p. 399-402.
- Lemiski, R.T., Hovikoski, J., Pemberton, S.G. and Gingras, M. (2011): Sedimentological, ichnological and reservoir characteristics of the low-permeability, gas-charged Alderson Member (Hatton gas field, southwest Saskatchewan): implications for resource development; *Bulletin of Canadian Petroleum Geology*, v. 59, no. 1, p. 27–53.
- Lickorish, W.H. and Simony, P.S. (1995): Evidence for late rifting of the Cordilleran margin outlined by stratigraphic division of the Lower Cambrian Gog Group, Rocky Mountain Main Ranges, British Columbia and Alberta; *Canadian Journal of Earth Sciences*, v. 32, no. 7. p. 860-874.

- McLean, R.A. and Klapper, G. (1998): Biostratigraphy of Frasnian (Upper Devonian) strata in western Canada, based on conodonts and rugose corals; *Bulletin of Canadian Petroleum Geology*, v. 46, no. 4, p. 515-563,
- Macqueen, R.W. and Bamber, E.W. (1968): Stratigraphy and facies relationships of the Upper Mississippian Mount Head Formation, Rocky Mountains and foothills, southwestern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 16, no. 3, p. 225-287.
- Macqueen, R.W. and Sandberg, C.A. (1970): Stratigraphy, age and interregional correlation of the Exshaw Formation, Alberta Rocky Mountains; *Bulletin of Canadian Petroleum Geology*, vol. 18, no. 1, p. 32-66.
- McGugan, A. (1984): Carboniferous and Permian Ishbel Group stratigraphy, North Saskatchewan Valley, Canadian Rocky Mountains, western Alberta; *Bulletin of Canadian Petroleum Geology*, v. 32, no. 4, p. 372-381.
- McGugan, A., Roessingh, H.K. and Danner, W.R. (1964): Permian; *in* Geological history of Western Canada, R.G. McCrossan and R.P. Glaister (ed.), Alberta Society of Petroleum Geologists, p. 103-112.
- McLaren, D.J. and Mountjoy, E.W. (1962): Alexo equivalents in the Jasper region, Alberta; Geological Survey of Canada, Paper 62-23, 36 p.
- McLearn, F.H. (1919): Cretaceous, lower Smoky River, Alberta; Geological Survey of Canada, Summary Report 1918, Part C, p. 1-7.
- McMechan, M. (2013): Geology, Kakwa area, British Columbia-Alberta; Geological Survey of Canada, Map 2065A, scale 1:125 000, URL <<http://geogratis.gc.ca/api/beta/en/nrcan-rncan/ess-sst/a757d71d-04cd-5eb0-9ca0-8fe5ef46e0f3.html>> [August 2015].
- Meier Drees, N.C. (1994): Devonian Elk Point Group of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 128-147, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch10/ch_10.html> [August 2015].
- Meijer Drees, N.C. and Mhyr, D.W. (1981): The Upper Cretaceous Milk River and Lea Park formations in southeastern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 29, no. 1, p. 42-74.
- Meijer Drees, N.C. and Johnston, D.I. (1994): Type section and conodont biostratigraphy of the Upper Devonian Palliser Formation, southwestern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 42, no. 1, p. 55-62.
- Meijer Drees, N.C., Johnston, D.I. and Fullmer, E.G. (1994): Devonian stratigraphy and depositional history across Peace River Highland, west-central Alberta and nearby British Columbia; Geological Survey of Canada, Open File 2851, 41 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/61764eb2-1c45-5fa5-ac68-36c2ee654230.html>> [August 2015].

- Meijer Drees, N.C., Nowlan, G.S., Fowler, M.G., Stasiuk, L.D., McGregor, D.C., Palmer, B.R. and Addison, G.D. (2002): Lithostratigraphy, sedimentology, paleontology, organic petrology, and organic geochemistry of the Middle Devonian Ashern, Winnipegosis, and Eyot formations in east-central Alberta and west-central Saskatchewan; Geological Survey of Canada, Bulletin 572, 55 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/c73952d4-6139-5baa-910e-d26c0595ab4f.html>> [August 2015].
- Miles, B.D., Kukulski, R.B., Raines, M.K., Zonneveld, J.-P., Leier, A.L. and Hubbard, S.M. (2012): A stratigraphic framework for Late Jurassic-Early Cretaceous gas-bearing strata (Monteith Formation) in the subsurface of northwest Alberta; Bulletin of Canadian Petroleum Geology, v. 60, no. 1, p. 3-36.
- Moore, P.F. (1993): Devonian; Subchapter 4D *in* Sedimentary cover of the Craton in Canada, D.F. Stott and J.D. Aitken (ed.); Geological Survey of Canada, Geology of Canada, no. 5, p. 150-201.
- Morrow, D.W. (2012): Devonian of the Northern Canadian Mainland Sedimentary Basin (a contribution to the geological atlas of the northern Canadian Mainland Sedimentary Basin); Geological Survey of Canada, Open File 6997, 88 p.; URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/44962113-ede8-5e4e-a337-f877562f3917.html>> [August 2015].
- Morrow, D.W. and Geldsetzer, H.H.J. (1988): Devonian of the eastern Canadian cordillera; *in* Devonian of the World, proceedings of the second international symposium on the Devonian System, volume I, Regional syntheses, N.J. McMillan, A.F. Embry and D.J. Glass (ed.); Canadian Society of Petroleum Geologists, Memoir 14, v. 1, p. 85-121.
- Morrow, D.W., MacLean, B.C., Tzeng, P. and Pană, D.I. (2002): Subsurface Paleozoic structure and isopach maps and selected seismic lines in southern Northwest Territories and northern Alberta: implication for mineral and petroleum potential; Geological Survey of Canada, Open File 4366, 24 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/556790e0-49dd-56b4-af33-20363f364d74.html>> [August 2015].
- Morrow, D.W., MacLean, B.C., Miles, W.F., Tzeng, P. and Pană, D.I. (2006): Subsurface structures in southern Northwest Territories and northern Alberta: Implications for mineral and petroleum potential; *in* Potential for carbonate-hosted lead-zinc Mississippi Valley-type mineralization in northern Alberta and southern Northwest Territories: Geoscience Contributions, Targeted Geoscience Initiative, P.K. Hannigan (ed.), Geological Survey of Canada, Bulletin 591, p. 41-59, URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=222908>> [August 2015].
- Mountjoy, E.W. (1962): Mount Robson map-area (southeast), Rocky Mountains of Alberta and British Columbia; Geological Survey of Canada, Paper 61-31, 114 p., URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=101251>> [August 2015].
- Mountjoy, E.W. (1980): Geology, Mount Robson, west of Sixth Meridian Alberta-British Columbia. Geological Survey of Canada, Map 1499A, scale 1:250 000, URL

- <http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/852d7e07-e37c-514f-9ed6-0570ef5ec053.html>
[August 2015].
- Mountjoy, E.W. and Geldsetzer, H.H.J. (1981): Devonian stratigraphy and sedimentation, southern Rocky Mountains; *in* Field guides to geology and mineral deposits, Calgary 1981, Annual Meeting, Geological Association of Canada, Canadian Geophysical Union. R.I. Thompson and D.G. Cook (ed.), p. 195-224.
- Mountjoy, E.W., Price, R.A. and Lebel, D. (1992): Geology and structure cross-section, Mountain Park, Alberta; Geological Survey of Canada Map 1830A, scale 1:50 000, URL
<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/79493f5e-5a05-58b6-b8b7-fa273d432b92.html>
[August 2015].
- Nielsen, K.S., Schröder-Adams, C.J. and Leckie, D.A. (2003): A new stratigraphic framework for the Upper Colorado Group (Cretaceous) in southern Alberta and southwestern Saskatchewan, Canada; *Bulletin of Canadian Petroleum Geology*, v. 51, no. 3, p. 304-346.
- Ng, K.-C. and Jones, B. (1989): Sedimentology and diagenesis of Upper Mississippian to Lower Permian strata, Talbot Lake area, Jasper National Park, Alberta; *Canadian Journal of Earth Sciences*, v. 26, no. 2, p. 275-295.
- Norford, B.S. (1969): Ordovician and Silurian stratigraphy of the southern Rocky Mountains; Geological Survey of Canada, Bulletin 176, 90 p., URL
<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=102323> [August 2015].
- Norford, B.S. (1990): Ordovician and Silurian stratigraphy, paleogeography and depositional history in the Peace River Arch area, Alberta and British Columbia, *Bulletin of Canadian Petroleum Geology*, v. 38A, p. 45-54.
- Norford, B.S., Haidl, F.M., Bezys, R.K., Cecile, M.P., McCabe, H.R. and Paterson, D.F. (1994): Middle Ordovician to Lower Devonian strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 109-127, URL
http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch09/ch_09.html#references [August 2015].
- Norris, D.K. (1964): The Lower Cretaceous of the southeastern Canadian Cordillera; *Bulletin of Canadian Petroleum Geology*, v. 12, special guidebook issue, p. 512-535.
- Norris, D.K. (1965): The stratigraphy of the Rocky Mountain Group in the southeastern Cordillera of Canada; Geological Survey of Canada, Bulletin 125, 101 p., URL
<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=100637> [August 2015].
- O'Connell, S.C. (1994): Geological history of the Peace River Arch; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 430-437, URL
http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch28/ch_28.html [August 2015].

- Okulitch, A.V. (2006a): Phanerozoic bedrock geology, Lake Athabasca, Alberta – Saskatchewan; Geological Survey of Canada, Open File 5280 (National Earth Science Series, Geological Atlas), Map NO-12-G, scale 1:1000 000, URL <http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=222155>> [August 2015].
- Okulitch, A.V. (2006b): Bedrock geology, Peace River, Alberta; Geological Survey of Canada, Open File 5282 (National Earth Science Series, Geological Atlas), Map NO-11-G, scale 1:1000 000, URL <http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download.web&search1=R=222164>> [August 2015].
- Oldale, H.S. and Munday, R.J. (1994): Devonian Beaverhill Lake Group of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 149-163, URL http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch11/ch_11.html> [August 2015].
- Osadetz, K.G. and Haidl, F.M. (1989): Tippecanoe sequence: Middle Ordovician to lowest Devonian vestiges of a great epeiric sea; *in* Western Canada Sedimentary Basin: a case study, Ricketts, B.D. (ed.), Canadian Society of Petroleum Geologists, Special Publication 30, p. 121-137.
- Orchard, M.J. and Zonneveld, J.-P. (2009): The Lower Triassic Sulphur Mountain Formation in the Wapiti Lake area: lithostratigraphy, conodont biostratigraphy, and a new biozonation for the lower Olenekian (Smithian); Canadian Journal of Earth Sciences, v. 46, no. 10, p. 757-790.
- Pană, D.I. (2010): Precambrian geology of northeastern Alberta (NTS 74M, 74L, and part of 74E); Energy Resources Conservation Board, ERCB/AGS Map 537, scale 1:250 000, URL http://ags.gov.ab.ca/publications/abstracts/MAP_537.html> [August 2015].
- Pană, D.I. and Elgr, R. (2013): Geology of the Alberta Rocky Mountains and Foothills; Energy Resources Conservation Board, ERCB/AGS Map 560, scale 1:500 000, URL http://www.ags.gov.ab.ca/publications/abstracts/MAP_560.html> [August 2015].
- Payenberg, T.H.D., Braman, D.R., Davies, D.W. and Miall, A.D. (2002): Litho- and chronostratigraphic relationships of the Santonian–Campanian Milk River Formation in southern Alberta and Eagle Formation in Montana utilising stratigraphy, U–Pb geochronology, and palynology; Canadian Journal of Earth Sciences, v. 39, no. 10, p. 1553-1577.
- Plint, A.G. (2000): Sequence stratigraphy and paleogeography of a Cenomanian deltaic complex: the Dunvegan and lower Kaskapau formations in subsurface and outcrop, Alberta and British Columbia, Canada; Bulletin of Canadian Petroleum Geology, v. 48, no. 1, p. 43-79.
- Plint, A.G., Norris, B. and Donaldson, W.S. (1990): Revised definitions for the Upper Cretaceous Bad Heart Formation and associated units in the Foothills and Plains of Alberta and British Columbia; Bulletin of Canadian Petroleum Geology, v. 38, no. 1, p. 78-88.

- Poulton, T.P. (1984): The Jurassic of the Canadian Western Interior, from 49°N latitude to Beaufort Sea; *in* The Mesozoic of middle North America, D.F. Stott and D.J. Glass (ed.), Canadian Society of Petroleum Geologists, Memoir 9, p. 15-41.
- Poulton, T.P., Christopher, J.E., Hayes, B.J.R., Losert, J., Tittimore, J. and Gilchrist, R.D. (1994): Jurassic and lowermost Cretaceous strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 297-316, URL <http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch18/ch_18.html> [August 2015].
- Price, R.A. (1965): Flathead map-area, British Columbia and Alberta; Geological Survey of Canada, Memoir 336, 221 p., URL <<http://geogratis.gc.ca/api/en/nrcan-rncan/ess-sst/56bd93eb-9444-5949-8690-4333f3a1f96f.html>> [August 2015].
- Prior, G., Hathway, B., Glombick, P., Pană, D.I., Banks, C.J., Hay, D.C., Schneider, C.L., Grobe, M., Elgr, R., Weiss, J. (2013): Bedrock Geology of Alberta; Alberta Energy Regulator; AER/AGS Map 600, scale 1:1 000 000, URL <http://www.ags.gov.ab.ca/publications/abstracts/MAP_600.html> [August 2015].
- Pugh, D.C. (1971): Subsurface Cambrian stratigraphy of southern and central Alberta; Geological Survey of Canada, Paper 70-10, 33 p.
- Pugh, D.C. (1973): Subsurface Lower Paleozoic stratigraphy in northern and central Alberta; Geological Survey of Canada, Open File 136, 53 p., URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=119998>> [August 2015].
- Ramaekers, P., Jefferson, C.W., Yeo, G.M., Collier, B., Long, D.G.F., Drever, G., McHardy, S., Jiricka, D., Cutts, C., Wheatley, K., Catuneanu, O., Bernier, S., Kupsch, B. and Post, R. (2007): Revised geological map and stratigraphy of the Athabasca Group, Saskatchewan and Alberta; *in* EXTECH IV: Geology and uranium EXploration TECHnology of the Proterozoic Athabasca Basin, Saskatchewan and Alberta, C.W. Jefferson and G. Delaney (ed.), Geological Survey of Canada, Bulletin 588, p. 155-192, URL <<http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=223754>> [August 2015].
- Richards, B.C. and Higgins, A.C. (1988): Devonian-Carboniferous boundary beds of the Palliser and Exshaw formations at Jura Creek, Rocky Mountains, southwestern Alberta; *in* Devonian of the World, McMillan, N.J., Embry, A.F. and Glass, D.J. (ed.), Canadian Society of Petroleum Geologists, Memoir 14, v. 2, p. 399-412.
- Richards, B.C., Barclay, J.E., Bryan, D., Hartling, A., Henderson, C.M. and Hinds, R.C. (1994): Carboniferous strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), p. 221-250, URL <http://www.ags.gov.ab.ca/publications/wcsb_atlas/a_ch14/ch_14.html> [August 2015].

- Roca, X., Rylaarsdam, J.R., Zhang, H., Varban, B.L., Siulak, C.F., Bastedo, K. and Plint, A.G. (2009): An allostratigraphic correlation of Lower Colorado Group (Albian) and equivalent strata in Alberta and British Columbia, and Cenomanian rocks of the Upper Colorado Group in southern Alberta; *Bulletin of Canadian Petroleum Geology*, v. 56, no. 4, p. 259-299.
- Russell, L.S. (1950): The Tertiary gravels of Saskatchewan; *Transactions of the Royal Society of Canada*, ser. 3, v. 44, sec. 4, p. 51-59.
- Schneider, C.L., Hauck, T.E. and Grobe, M. (2013): Sequence stratigraphic architecture and evolution of platform margin to basin sedimentation: the Devonian Beaverhill Lake Sequence in Alberta, Canada; *in* Deposits, architecture and controls of carbonate margin, slope and basinal settings, Verver K., Playton, T.E. and Harris, P.M. (ed.), SEPM (Society for Sedimentary Geology) Special Publication 105, p. 178-210.
- Scott, C.S., Spivak, D.N. and Sweet, A.R. (2013): First mammals from the Paleocene Porcupine Hills Formation of southwestern Alberta, Canada; *Canadian Journal of Earth Sciences*, v. 50, no. 3, p. 355-378.
- Slind, O.L. and Perkins, G.D. (1966): Lower Paleozoic and Proterozoic sediments of the Rocky Mountains between Jasper, Alberta and Pine River, British Columbia; *Bulletin of Canadian Petroleum Geology*, v. 14, no. 4, p. 442-468.
- Slind, O.L., Andrews, G.D., Murray, D.L., Norford, B.S., Faterson, D.F., Salas, C.J. and Tawadros, E.E. (1994): Middle Cambrian to Lower Ordovician strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 87-108, URL http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch08/ch_08.html [August 2015].
- Smith, M.D., Arnott, R.W.C. and Ross, G.M. (2014): The Old Fort Point Formation: Redefinition and formal subdivision of a distinctive stratigraphic marker in the Neoproterozoic Windermere Supergroup, southern Canadian Cordillera; *Bulletin of Canadian Petroleum Geology*, v. 62, no. 1, p. 1-13.
- Stelck, C.R., Trollope, F.H., Norris, A.W. and Pemberton, S.G. (2007): McMurray Formation foraminifera within the lower Albian (Lower Cretaceous) Loon River shales of northern Alberta; *Canadian Journal of Earth Sciences*, v. 44, no. 11, p. 1627-1651.
- Storer, J.E. (1972): Mammals of the Hand Hills Formation of southern Alberta: Preliminary faunal list. *Blue Jay*, v. 30, p. 119-120.
- Storer, J.E. (1978): Tertiary sands and gravels in Saskatchewan and Alberta: correlation of mammalian faunas; *in* Western and arctic Canadian biostratigraphy: proceedings of the P. S. Warren Biostratigraphy Symposium organized by the Geological Association of Canada and the Edmonton Geological Society, held at the University of Alberta, Edmonton, Alberta, May 19, 1976, C.R. Stelck and B.D.E. Chatterton (ed.), p. 595-602.

- Storer, J.E. (1996): Eocene-Oligocene faunas of the Cypress Hills Formation, Saskatchewan; *in* The terrestrial Eocene-Oligocene transition in North America, D.R. Prothero and R.J. Emry (ed.), Cambridge University Press, p. 240–261.
- Stott, D.F. (1963): The Cretaceous Alberta Group and equivalent rocks, Rocky Mountain Foothills, Alberta; Geological Survey of Canada, Memoir 317, 306 p., URL <http://open.canada.ca/data/en/dataset/bd7e97dc-82cc-59d4-90ca-aeceaf67f7fe> [August 2015].
- Stott, D.F. (1967): The Cretaceous Smoky Group, Rocky Mountain Foothills, Alberta and British Columbia; Geological Survey of Canada, Bulletin 132, 133 p., URL <http://geogGratis.gc.ca/api/en/nrcan-rncan/ess-sst/dbfd11da-5a94-5e1d-9ab1-5f34e4bb1004.html> [August 2015].
- Stott, D.F. (1982): Lower Cretaceous Fort St. John Group and Upper Cretaceous Dunvegan Formation of the foothills and plains of Alberta, British Columbia, District of Mackenzie and Yukon Territory; Geological Survey of Canada, Bulletin 328, 124 p., URL http://geoscan.ess.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/geoscanfastlink_e.web&search1=R%3D119100 [August 2015].
- Stott, D.F. (1991): Geotectonic correlation chart, Sheet 2, Prairie Provinces and British Columbia; *in* Sedimentary cover of the North American Craton: Canada, D.F. Stott and J.D. Aitken (ed.), Geological Survey of Canada, Geology of Canada, No. 5.
- Stott, D.F. (1998): Fernie Formation and Minnes Group (Jurassic and lowermost Cretaceous), northern Rocky Mountain Foothills, Alberta and British Columbia; Geological Survey of Canada, Bulletin 516, 516 p., URL http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/download_e.web&search1=R=209578 [August 2015].
- Stritch, R.A. and Schröder-Adams, C.J. (1999): Foraminiferal response to Albian relative sea-level changes in northwestern and central Alberta, Canada; Canadian Journal of Earth Sciences, v. 36, no. 10, p. 1617-1643.
- Sweet, A.R. and Braman, D.R. (1990): Age and stratigraphic significance of the Wapiabi-Brazeau transition, south-central Alberta Foothills and Plains; *in* Field guide to uppermost Cretaceous-Tertiary strata in southern Saskatchewan and Alberta, D.R. Braman and A.R. Sweet (ed.), Canadian Society of Petroleum Geologists, Convention, Basin Perspectives, Calgary, Alberta, p. 15-22.
- Switzer, S.B., Holland, W.G., Christie, D.S., Graf, G.C., Hedinger, A.S., McAuley, R.J., Wierzbicki, R.A. and Packard, J.J. (1994): Devonian Woodbend-Winterburn strata of the Western Canada Sedimentary Basin; *in* Geological atlas of the Western Canada Sedimentary Basin, G. Mossop and I. Shetsen (comp.), Canadian Society of Petroleum Geologists and Alberta Research Council, p. 165-201, URL http://ags.gov.ab.ca/publications/wcsb_atlas/a_ch12/ch_12.html [August 2015].
- Teitz, M.W. and Mountjoy, E.W. (1985): The Yellowhead and Astoria carbonate platforms in the Late Proterozoic Upper Miette Group, Jasper, Alberta; *in* Current Research, Part A, Geological Survey of Canada, Paper 85-1A, p. 341-348.

- Trotter, R. (1989): Sedimentology and depositional setting of the Granite Wash of the Utikuma and Red Earth areas, north-central Alberta; M.Sc. thesis, Dalhousie University, 378 p.
- Trotter, R. and Hein, F.J. (1988): Sedimentology and depositional setting of the Granite Wash, northwestern Alberta; *in* Sequences, stratigraphy, sedimentology: surface and subsurface, D.P. James and D.A. Leckie, (ed.), Canadian Society of Petroleum Geologists, Memoir 15, p. 475-484.
- Tu, Q., Schröder-Adams, C.J. and Craig, J. (2007): A new lithostratigraphic framework for the Cretaceous Colorado Group in the Cold Lake Heavy Oil Area, east-central Alberta, Canada; *Natural Resources Research*, v. 16, no. 1, p. 17-30.
- van Buchem, F.S.P., Chaix, M., Eberli, G.P., Whalen, M.T., Masse, P. and Mountjoy, E.W. (2000): Outcrop to subsurface correlation of the Upper Devonian (Frasnian) in the Alberta Basin (W. Canada) based on the comparison of Miette and Redwater carbonate buildup margins; *in* Genetic stratigraphy on the exploration and production scales - case studies from the Pennsylvanian of the Paradox Basin and the Upper Devonian of Alberta, P.W. Homewood and G.P. Eberli (ed.), *Elf Aquitaine Memoir* 24, p. 225-267.
- Vigrass, L.W. (1977): Trapping of oil at intra-Mannville (Lower Cretaceous) disconformity in Lloydminster Area, Alberta and Saskatchewan; *American Association of Petroleum Geologists Bulletin*, v. 61, no. 7, p. 1010-1028.
- Vonhof, J.A. (1969): Tertiary gravels and sands in the Canadian Great Plains; Ph.D. thesis, University of Saskatchewan, 279 p.
- Wall, J.H. (1967): Cretaceous foraminifera of the Rocky Mountain Foothills, Alberta; *Research Council of Alberta, Alberta Geological Survey, Bulletin* 20, 185 p., URL http://ags.gov.ab.ca/publications/abstracts/BUL_020.html [August 2015].
- Wendte, J., Bosman, M., Stoakes, F. and Bernstein, L. (1995): Genetic and stratigraphic significance of the Upper Devonian Frasnian Z Marker, west-central Alberta; *Bulletin of Canadian Petroleum Geology*, v. 43, no. 4, p. 393-406.
- Weides, S., Moeck, I., Majorowicz, J. and Grobe, M. (2014): The Cambrian Basal Sandstone Unit in central Alberta — an investigation of temperature distribution, petrography, and hydraulic and geomechanical properties of a deep saline aquifer; *Canadian Journal of Earth Sciences*, v. 51, no. 8, p. 783-796.
- Weissenberger, J.A.W. (1994): Frasnian reef and basinal strata of West Central Alberta: a combined sedimentological and biostratigraphic analysis; *Bulletin of Canadian Petroleum Geology*, v. 42, no. 1, p. 1-25.
- Whitaker, S.H. and Christiansen, E.A. (1972): The Empress Group in southern Saskatchewan; *Canadian Journal of Earth Sciences*, v. 9, no. 4, p. 353–360.
- White, J.M. and Leckie, D.A. (1999): Palynological age constraints on the Cadomin and Dalhousie formations in SW Alberta; *Bulletin of Canadian Petroleum Geology*, v. 47, no. 3, p. 199-222.

- Williams, G.K. (1977): Some observations on the Horn Plateau, District of Mackenzie; *in* Report on Activities Part B, Geological Survey of Canada, Paper 77-1B, p. 191-196, URL <http://geoscan.nrcan.gc.ca/starweb/geoscan/servlet.starweb?path=geoscan/fulle.web&search1=R=102780> [August 2015].
- Williams, S.K., Krause, F.F., Knopp, S.T., Davies, E.H., Poulton, T.P. and DeBuhr, C.L. (2013): The Niton Member: a new Oxfordian to Kimmeridgian (Jurassic) glauconitic sandstone member, Fernie Formation, west-central Alberta subsurface – sedimentology, biostratigraphy and regional considerations; *Bulletin of Canadian Petroleum Geology*, v. 61, no. 3, p. 211-240.
- Young, F.G., Campbell, R.B. and Poulton, T.P. (1973): The Windermere Supergroup of the southeastern Canadian Cordillera; *in* Belt Basin Symposium, v. 1, D.T. Bishop and J.D. Powell (ed.), p. 187-203.
- Zajac, N.A. (2012): Sedimentology and reservoir fairway distribution of the Upper Cretaceous Jumping Pound Sandstone, Second White Specks Formation, southwestern Alberta; B.Sc. thesis, University of Calgary.
- Zajac, N.A. and Pedersen, P. K. (2012): Reservoir characterization and depositional interpretation of the Middle Cretaceous Jumping Pound Sandstone in the southern Alberta Foothills; Canadian Society of Petroleum Geologists, GeoConvention 2012: Vision, Calgary, 2 p. [abstract].
- Zajac, N.A. and Pedersen, P. K. (2013): Sedimentology and reservoir fairway distribution of the Upper Cretaceous Jumping Pound Sandstone, Second White Specks Formation, southwestern Alberta; Canadian Society of Petroleum Geologists, GeoConvention 2013: Integration, Calgary, 3 p. [abstract].
- Zonneveld, J.-P., Gingras, M.K. and Beatty, T.W. (2010): Diverse ichnofossil assemblages following the P-T mass extinction, Lower Triassic, Alberta and British Columbia, Canada: evidence for shallow marine refugia on the northwestern coast of Pangea; *Palaeos*, v. 25, p. 368-392.
- Zubin-Stathopoulos, K.D. (2011): Tectonic evolution, paleogeography and paleoclimate of Pennsylvanian–Permian strata in east-central British Columbia: implications from conodont biostratigraphy and carbonate sedimentology; M.Sc. thesis, University of Calgary, 165 p., URL <http://dspace.ucalgary.ca/handle/1880/48733> [August 2015].
- Zubin-Stathopoulos, K.D., Beauchamp, B., Davydov, V.I. and Henderson, C.M. (2013): Variability of Pennsylvanian-Permian carbonate associations and implications for NW Pangea palaeogeography, east-central British Columbia; *in* Paleozoic climate cycles: their evolutionary and sedimentological impact, A. Gasiewicz and M. Slowakiewicz (ed.), Geological Society, London, Special Publications, v. 376, p. 47-72.