WEST-CENTRAL & CENTRAL SASKATCHEWAN / MAP ATLAS

Formation geometry and gross thickness

50 formation/surface plates plus 5 regional evidence plates

Regional model tops, explicit gross intervals and distinct boundary evidence. A line on a map needs a geological interpretation: zero edge, erosion, thinning and source support are not interchangeable.

Reference system	Display grid	Indexing footprint
NAD83 / UTM zone 13N (EPSG:26913)	2.0 km	110°W to 103.5°W; 51.25°N to 53.5°N

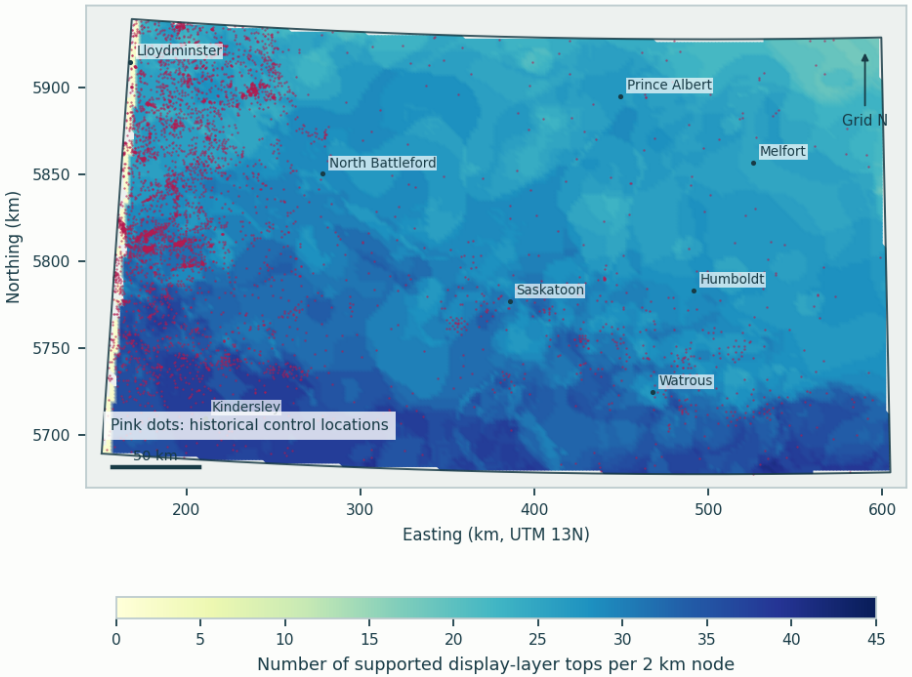
Original source geometry: Bédard, Marsh, Hillier and Music (2023), GSC Open File 8969. Published provincial zero-edge and unconformity linework retains its own source attribution. Unsupported grid cells remain blank. Contour spacing is a display choice, not an accuracy statement.

Gross vertical intervals are source-top minus the stated source base. They are not net sand, effective reservoir thickness or net pay. Finer informal heavy-oil members require their own log/core correlation and are not silently substituted for a composite regional surface. Unconformities and basement have no invented interval thickness.

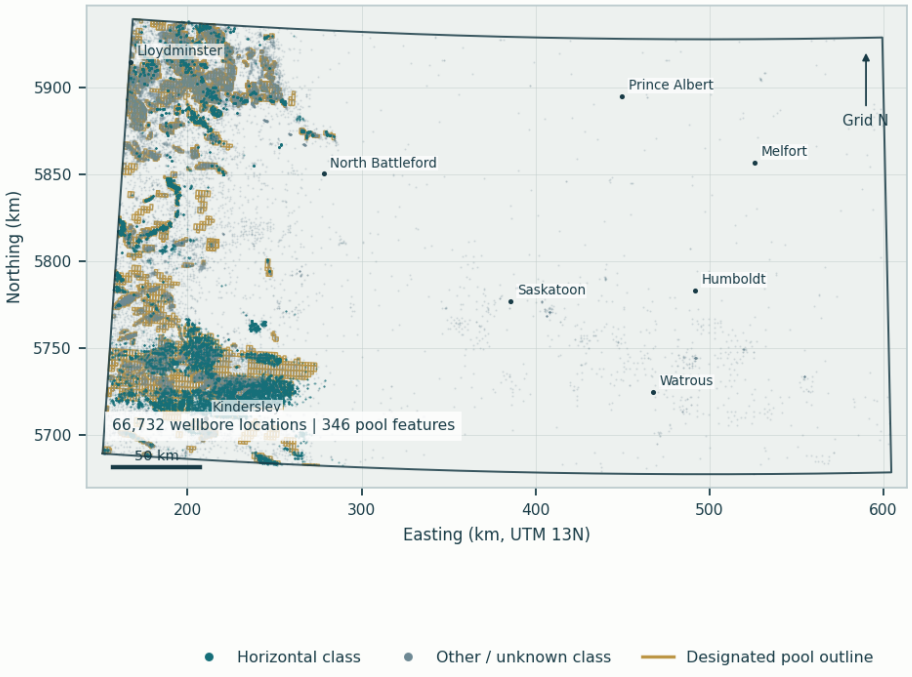
Evidence coverage: surfaces, wells and pools

45 display layers; 4,821 historical control wells; 65,878 corrected historical picks. Modern inventory and historical controls are distinct compilations.

A Numerical support and historical control



B Modern wellbore inventory / designated pools



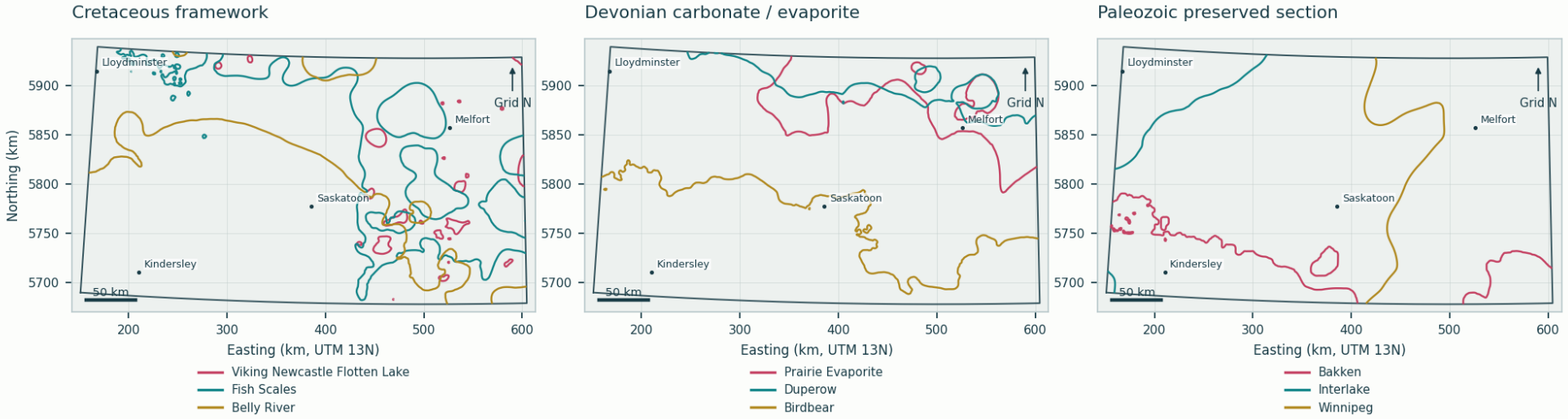
Regional geometry: [S01]. Government well / pool data: [S28, S32]; exact source services, dates and entity definitions are retained in the data register.

Spatial density is evidence availability, not a discovery-probability or reservoir-quality heat map. A point does not represent its complete subsurface trajectory.

Model support counts include unconformities and cover/basement; layer count is not a count of producing reservoir formations.

Published zero edges: selected regional comparisons

Each line is a published formation limit. The genetic cause is unresolved here; the source grid, model support and pool outlines remain separate evidence.



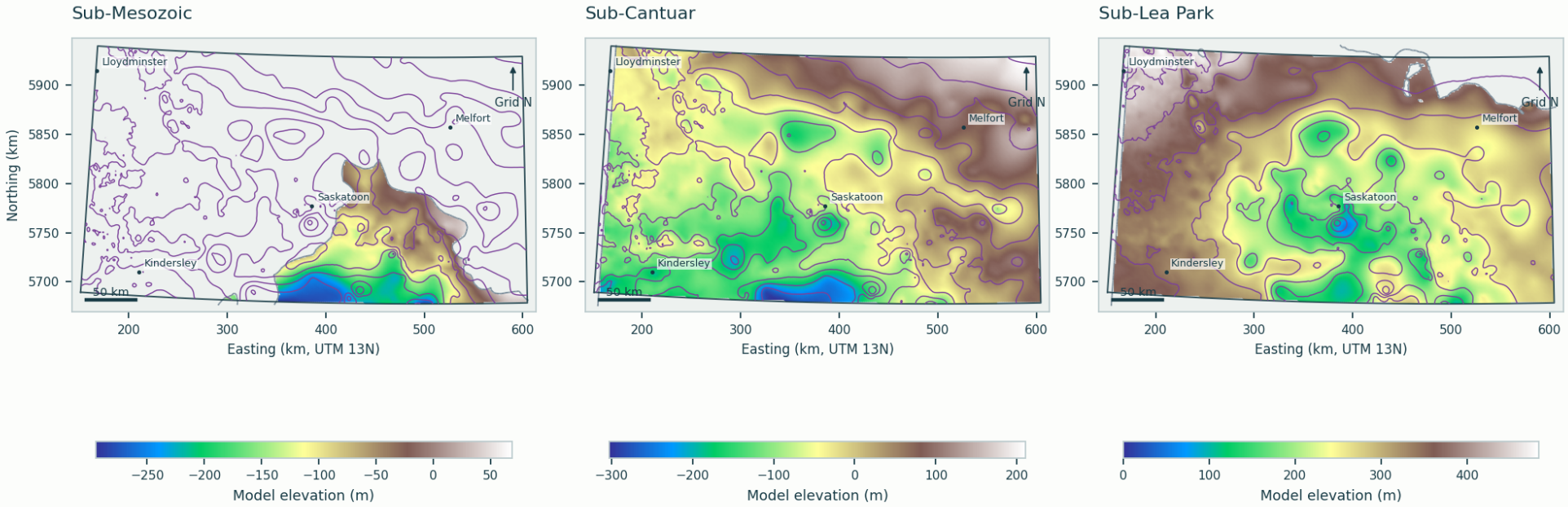
Complete clipped line set: 352 zero-edge features for 43 source units; full coverage is preserved in the data export and unit-specific atlas plates.

Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Zero-edge source ZLEVEL is not used as structural elevation or thickness.

The absence of an edge in this window does not prove an entire unit is present or absent; consult each source-layer coverage status.

Erosional surfaces: measured framework, incomplete history

Colour is present source-model elevation; purple lines are independently published structure contours. Neither alone restores removed thickness, paleo-relief or age of erosion.



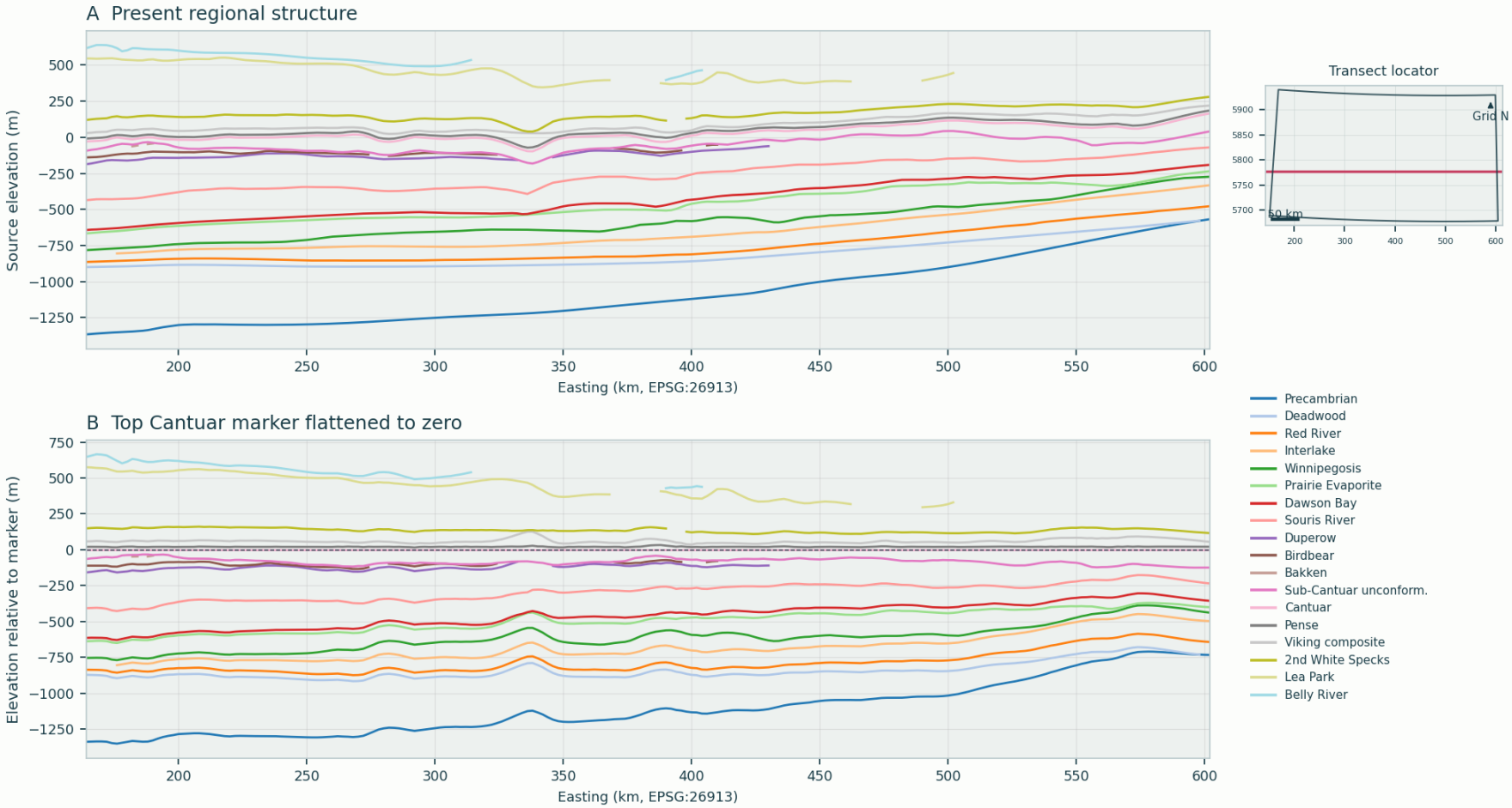
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Published unconformity contours retain source elevations and an unspecified modern vertical-datum realization; small offsets between independently published interpretations may occur.

Seven modeled unconformity layers are available; five named surfaces also have clipped provincial contour linework. Central hiatus interpretation is discussed separately.

West-east source-model comparison

Projected section at northing 5778 km. Gaps remain gaps. The lower panel is marker flattening, not a restoration of compaction, salt movement, water depth or erosion.

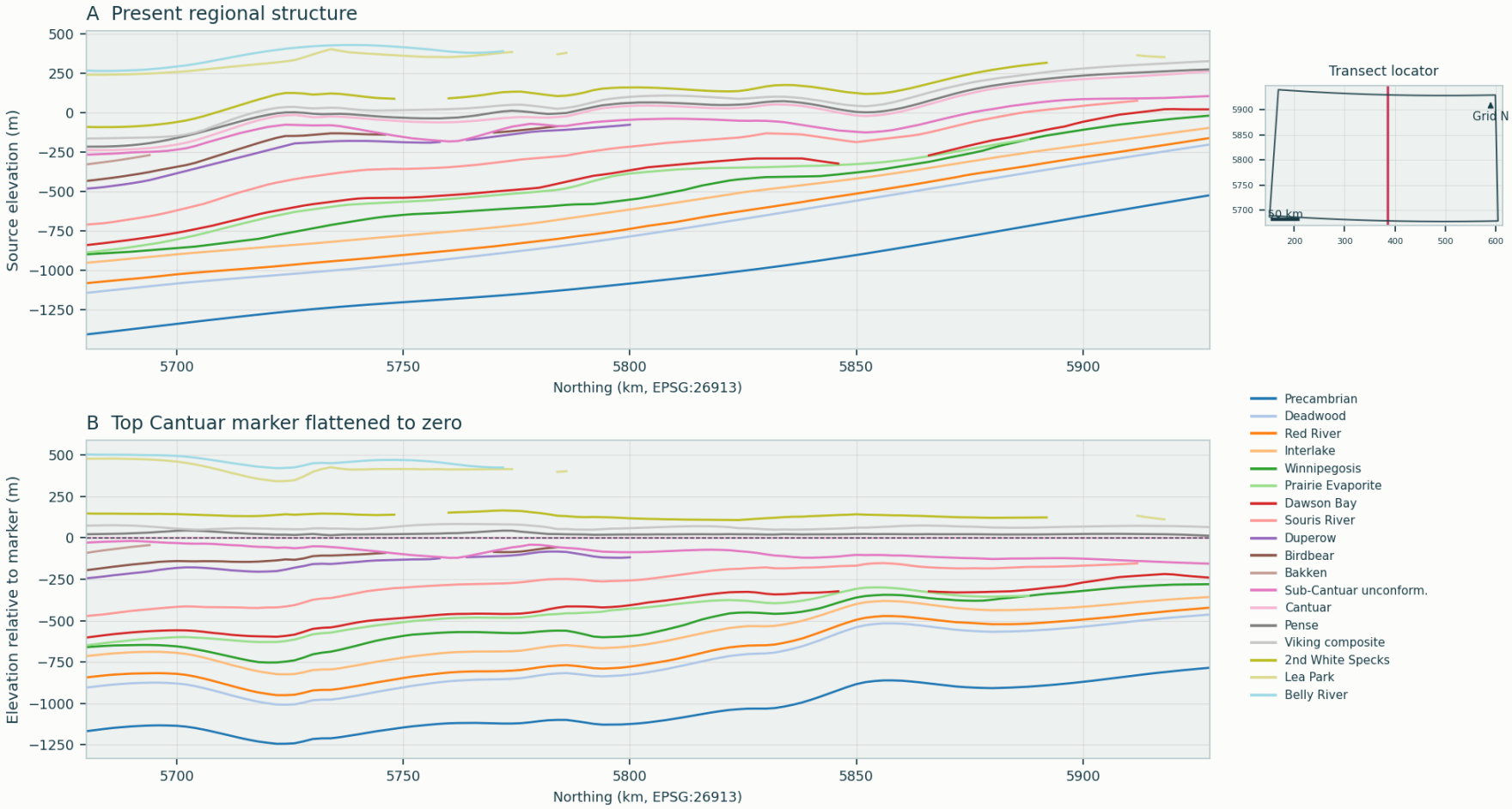


Source: Bédard et al. (2023), GSC OF 8969 [S01]. Display resampling: 2 km; section nodes are the same supported nodes used by the map/viewer.

Only selected horizons are drawn for legibility. Apparent convergence can result from source composite intervals, erosion, deposition or unresolved support; use local log/core ties.

South-north source-model comparison

Projected section at easting 386 km. Gaps remain gaps. The lower panel is marker flattening, not a restoration of compaction, salt movement, water depth or erosion.

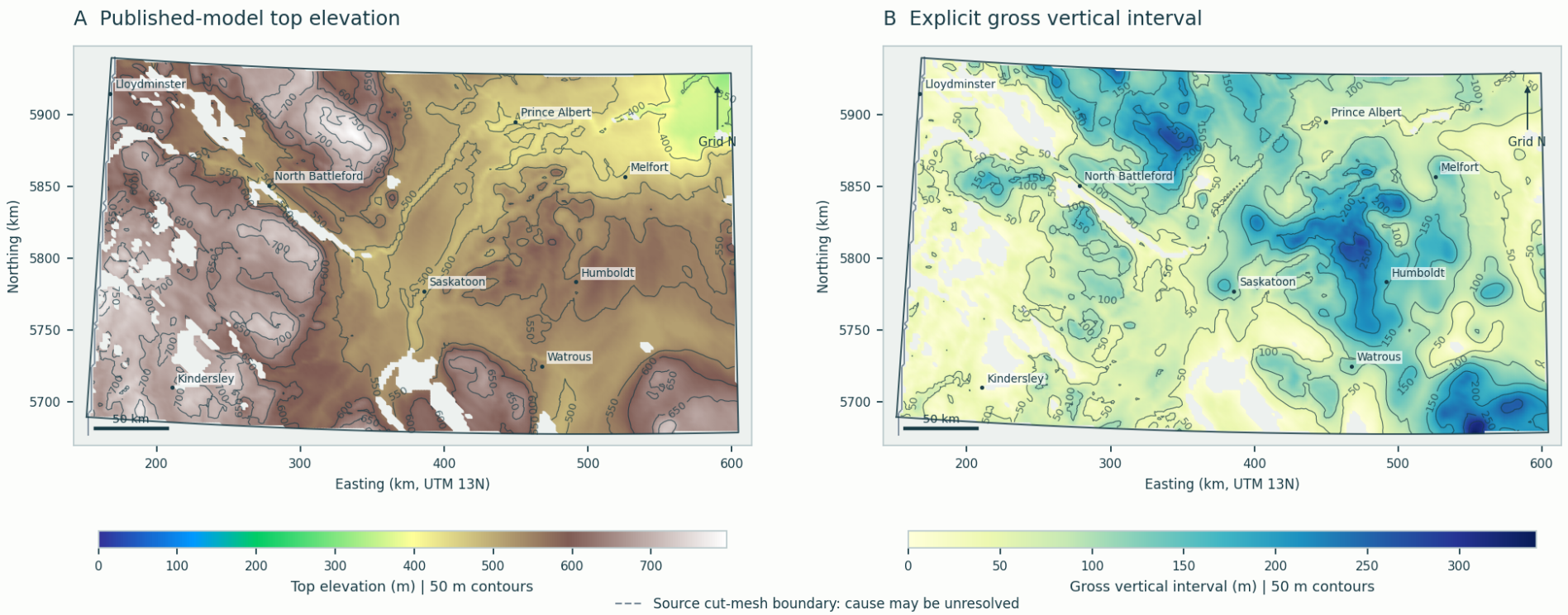


Source: Bédard et al. (2023), GSC OF 8969 [S01]. Display resampling: 2 km; section nodes are the same supported nodes used by the map/viewer.

Only selected horizons are drawn for legibility. Apparent convergence can result from source composite intervals, erosion, deposition or unresolved support; use local log/core ties.

Quaternary | regional geometry

DEM top to Unconformity Sub Quaternary. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



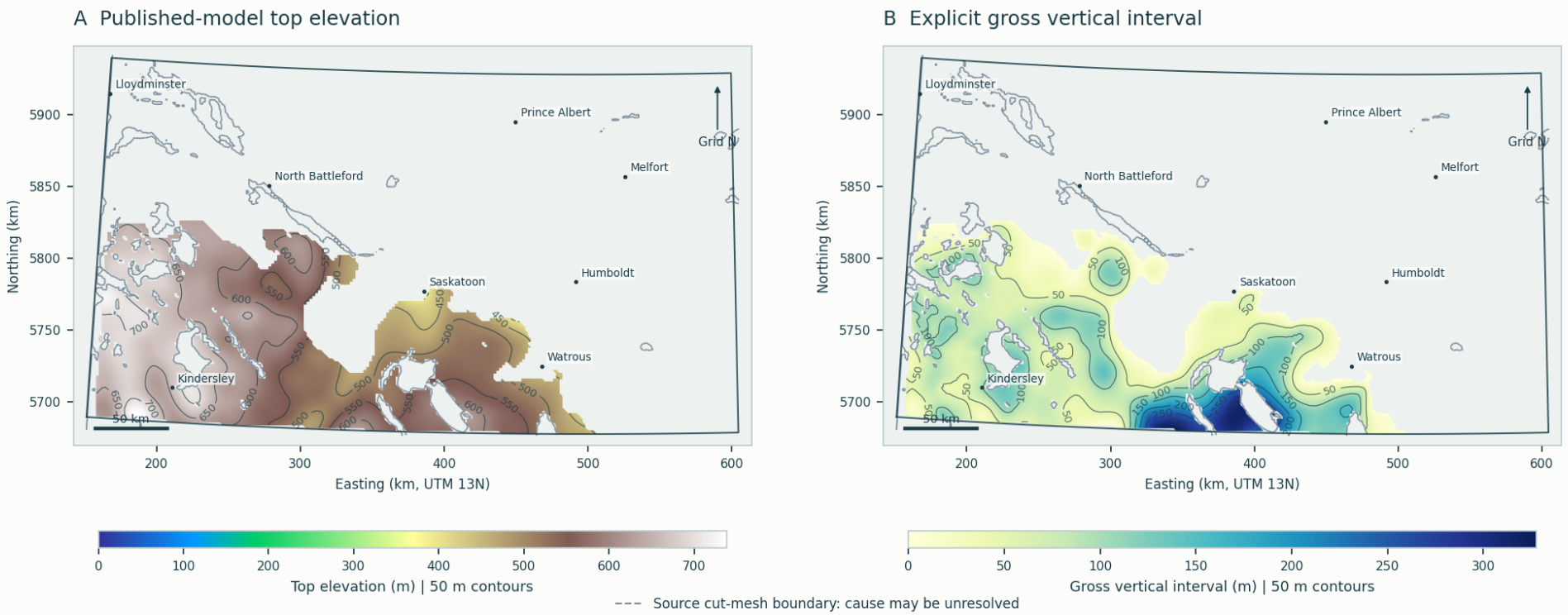
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Above Belly River | regional geometry

Unconformity Sub Quaternary top to Belly River. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

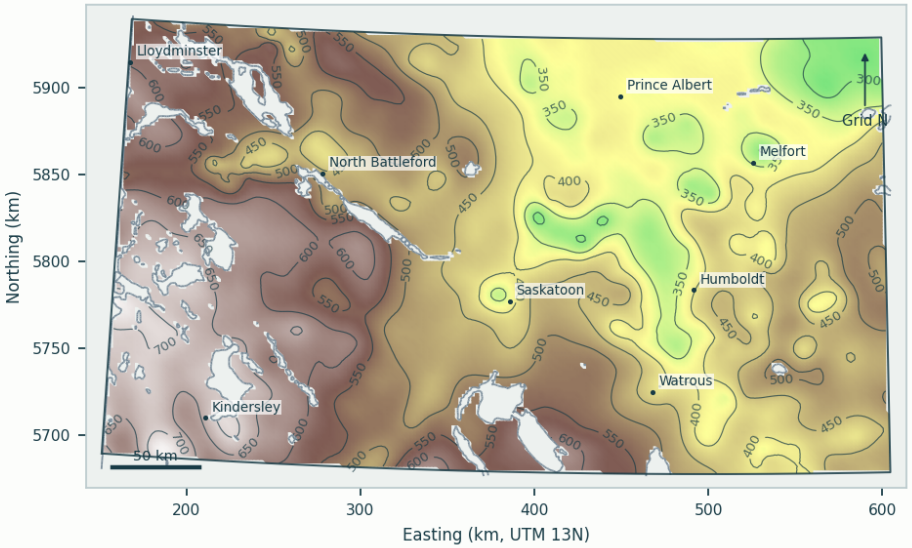
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

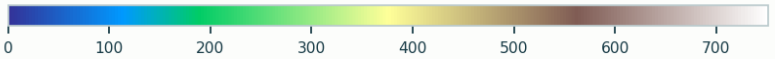
Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Sub-Quaternary unconformity | regional geometry

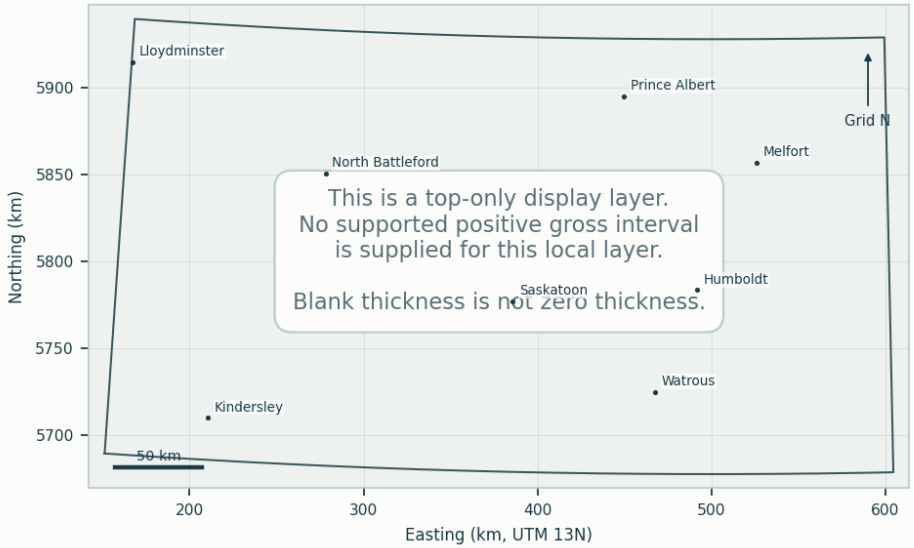
Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.

A Published-model top elevation





B No accepted interval thickness



--- Source cut-mesh boundary: cause may be unresolved

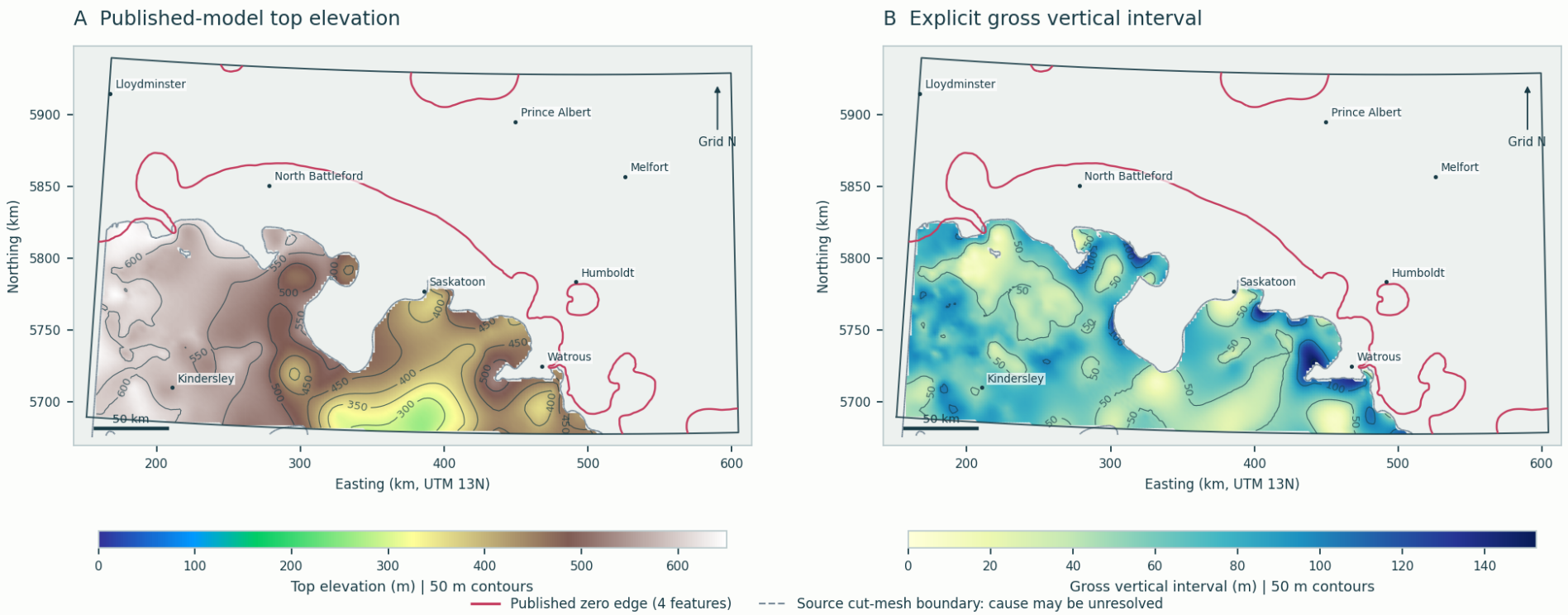
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Belly River | regional geometry

Belly River top to Lea Park. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



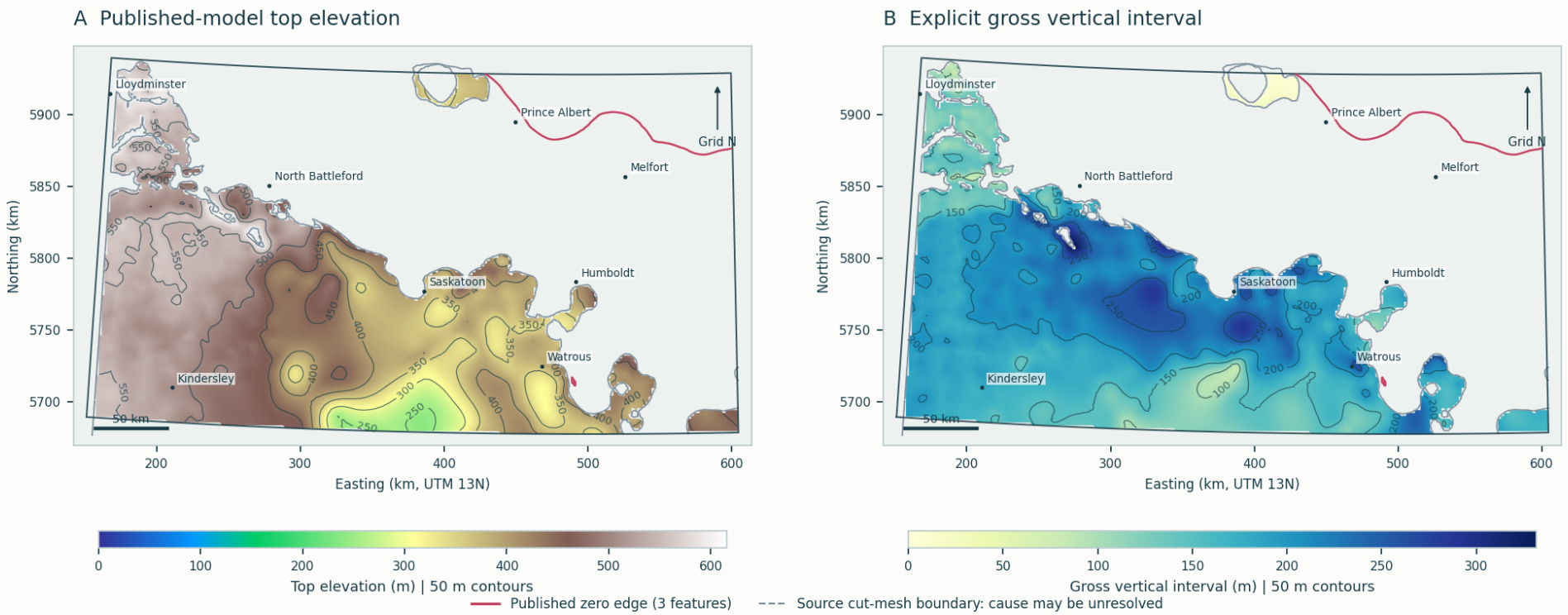
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Lea Park | regional geometry

Lea Park top to Unconformity Sub Lea Park. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



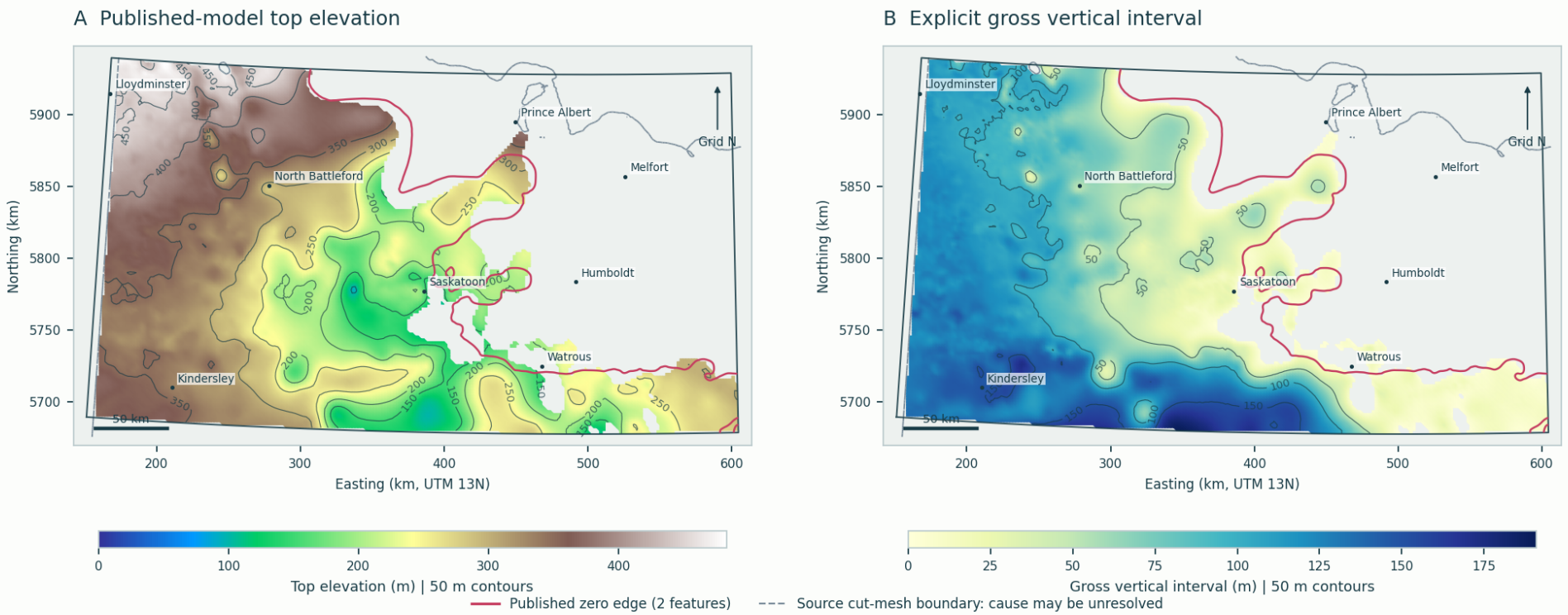
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Milk River | regional geometry

Unconformity Sub Lea Park top to Upper Colorado. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

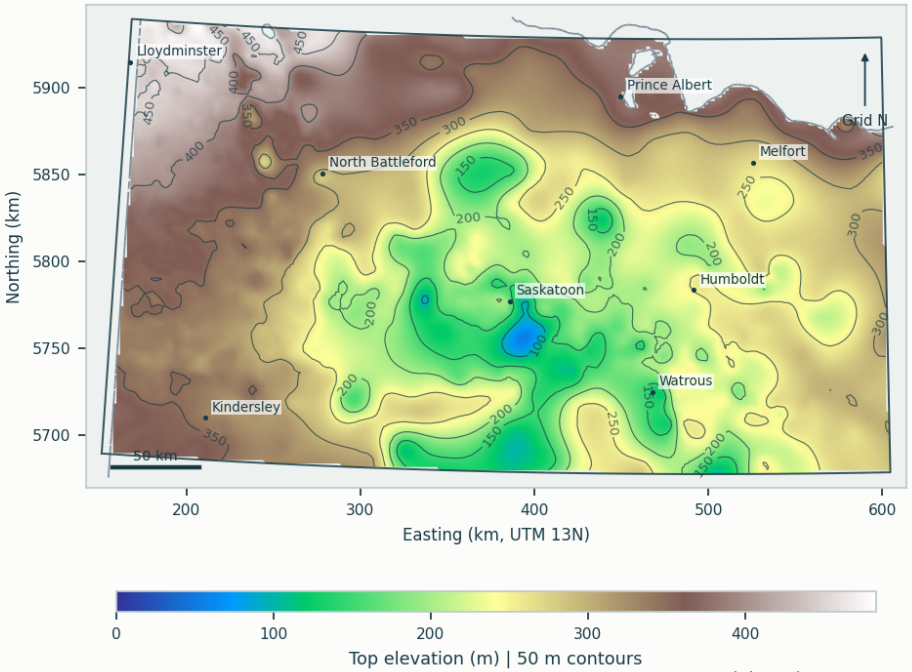
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

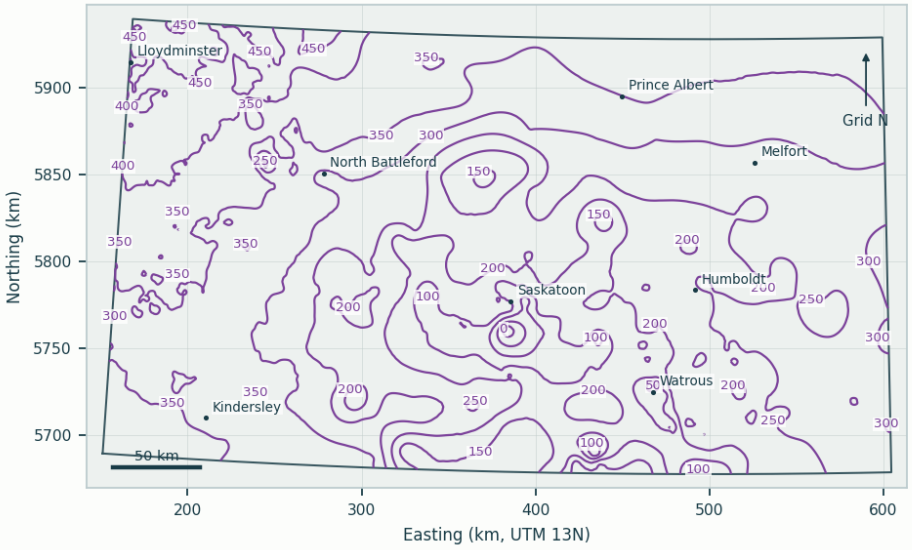
Sub-Lea Park unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.

A Published-model top elevation



B Independently published structure contours



Source cut-mesh boundary: cause may be unresolved

Independent unconformity contour

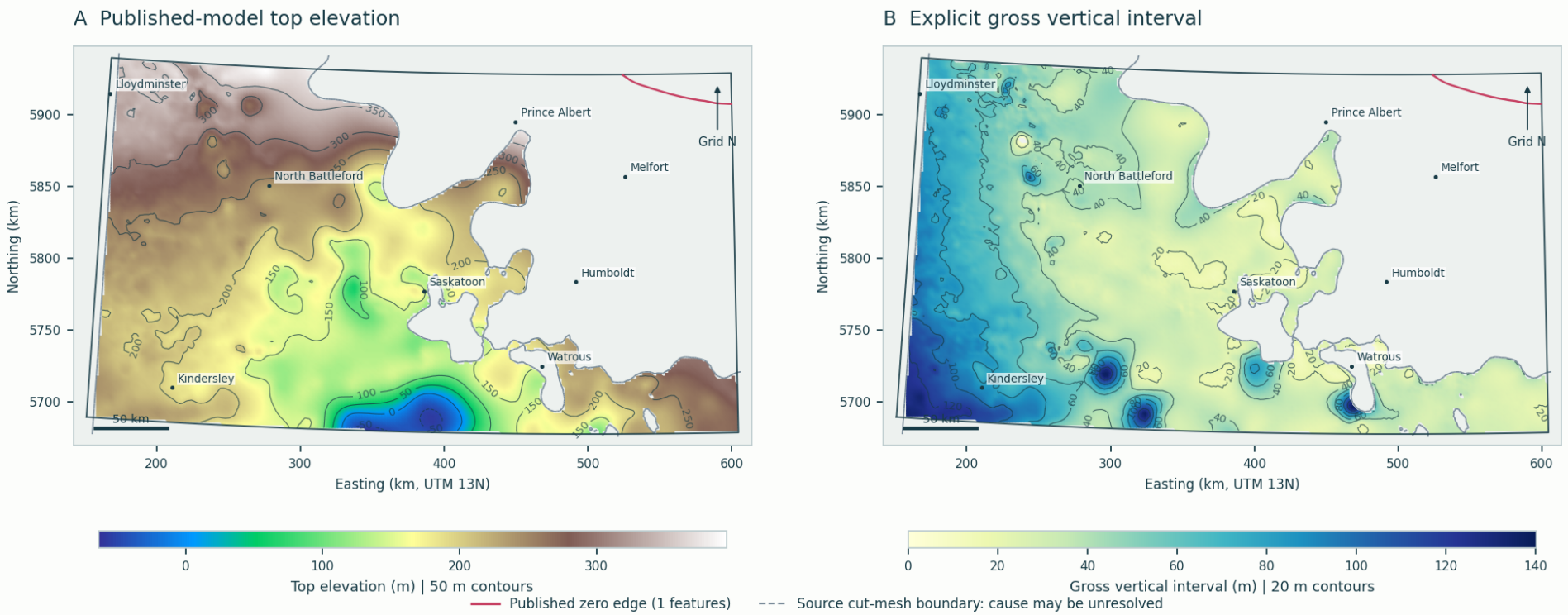
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Upper Colorado | regional geometry

Published Upper Colorado top to Second White Specks marker: a composite regional interval.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



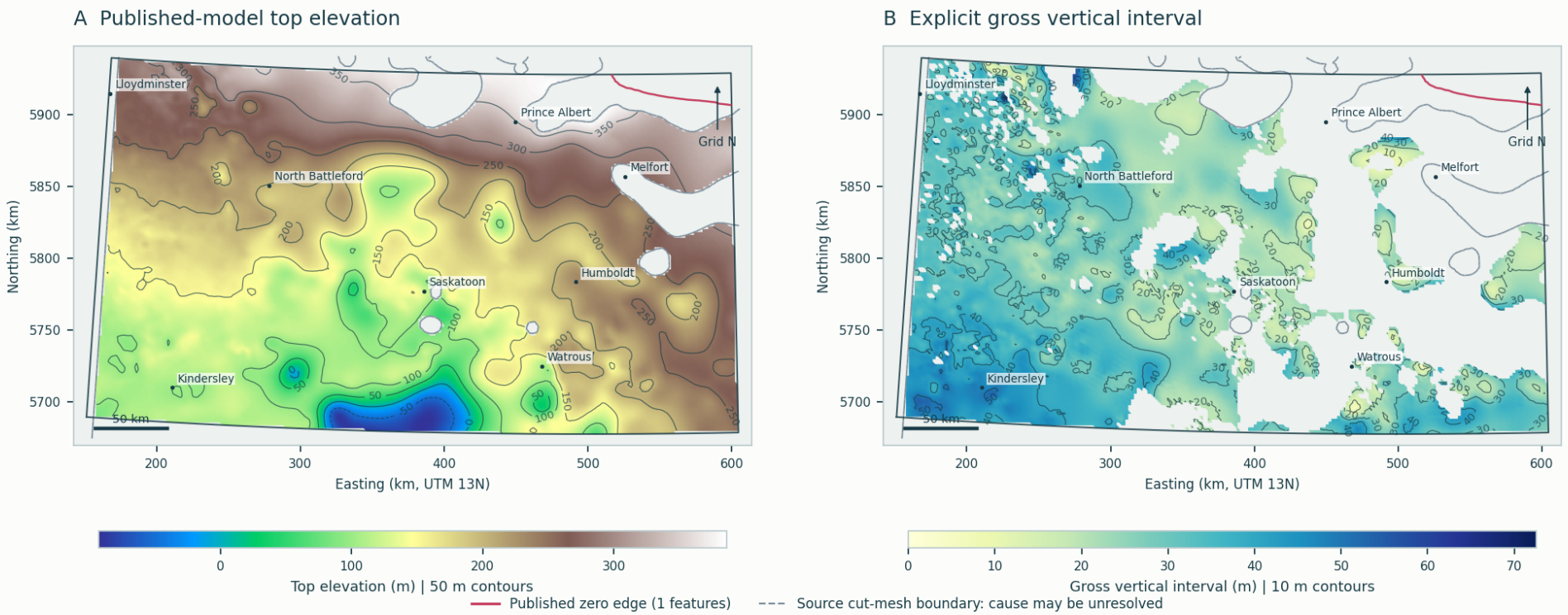
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

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2nd White Specks | regional geometry

Second White Specks marker to Fish Scales marker: a composite interval including Belle Fourche strata.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



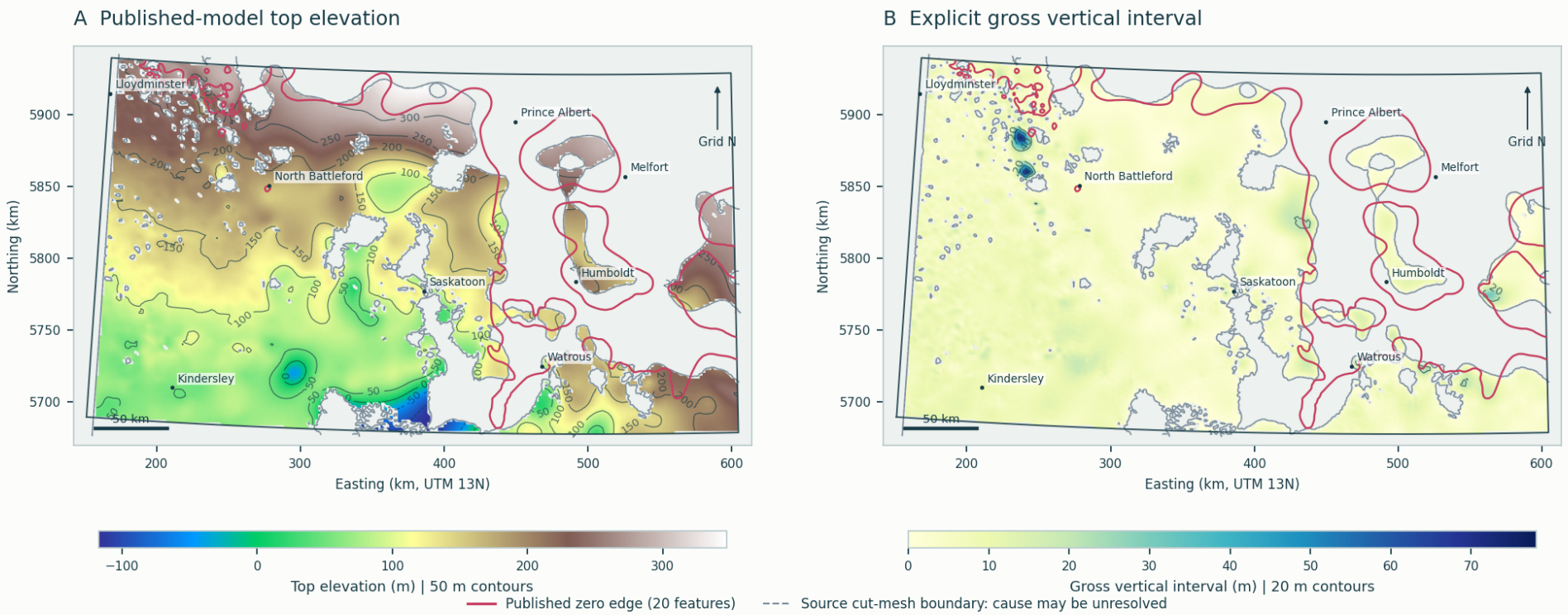
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

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Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Fish Scales | regional geometry

Fish Scales top to Westgate. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



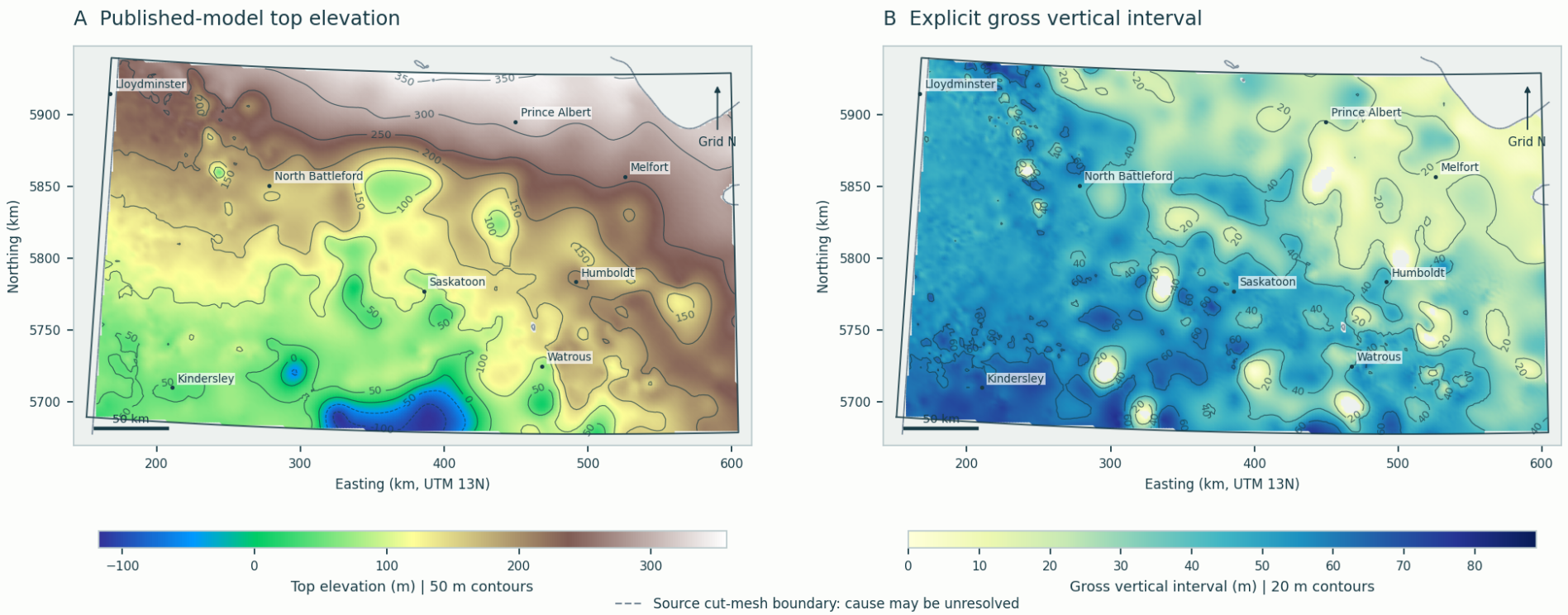
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Westgate | regional geometry

Westgate top to Viking Newcastle Flotten Lake. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



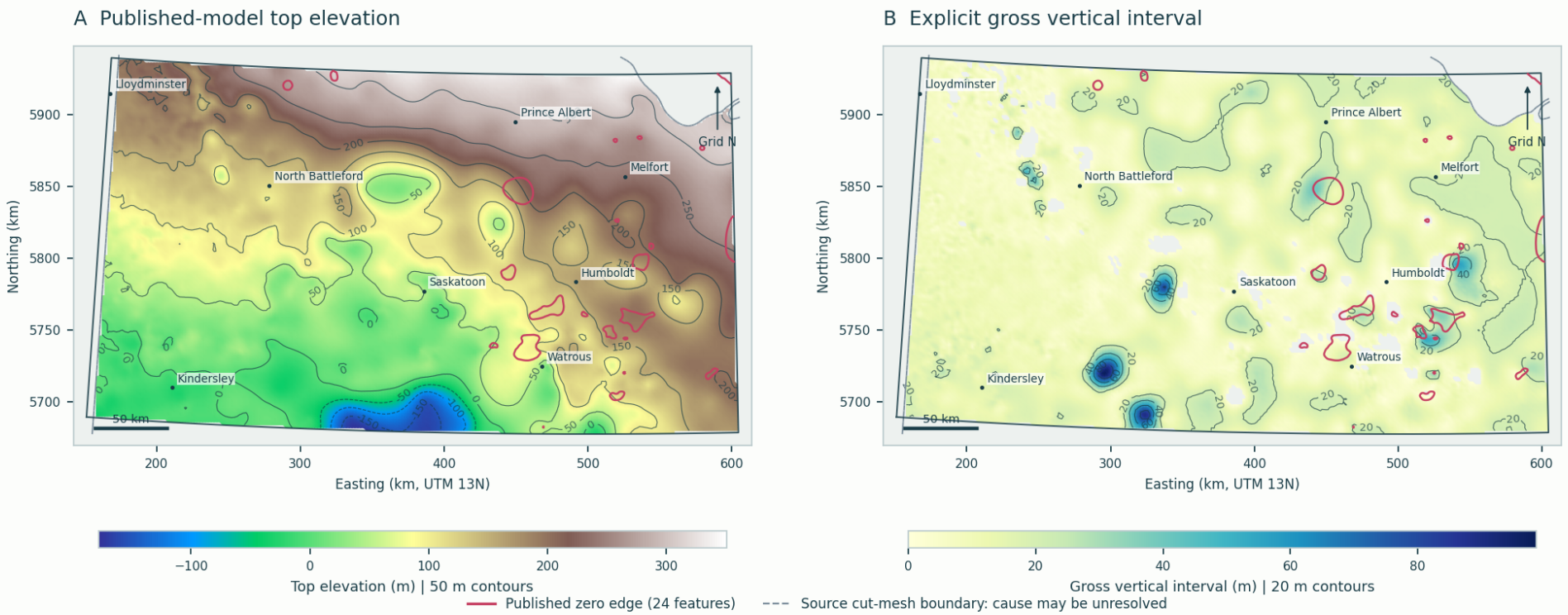
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

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Viking Newcastle Flotten Lake | regional geometry

Viking Newcastle Flotten Lake top to Joli Fou. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



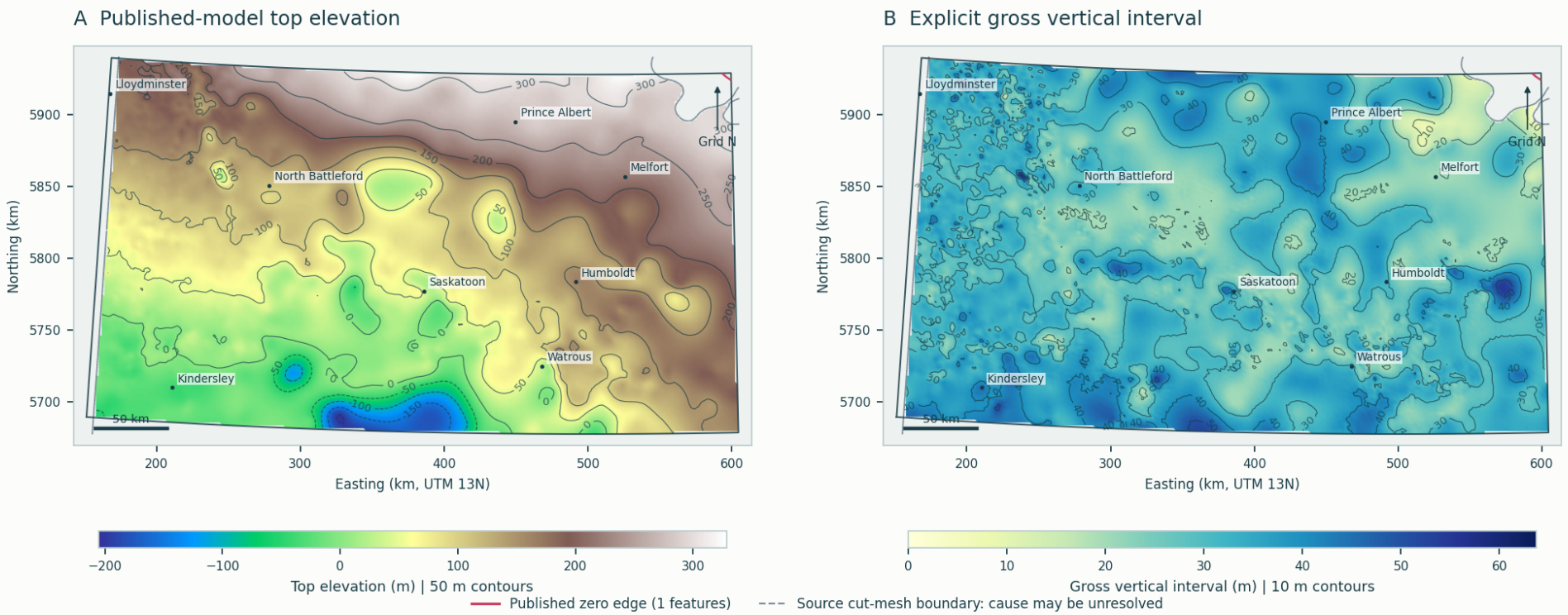
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

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Joli Fou | regional geometry

Joli Fou top to Pense. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



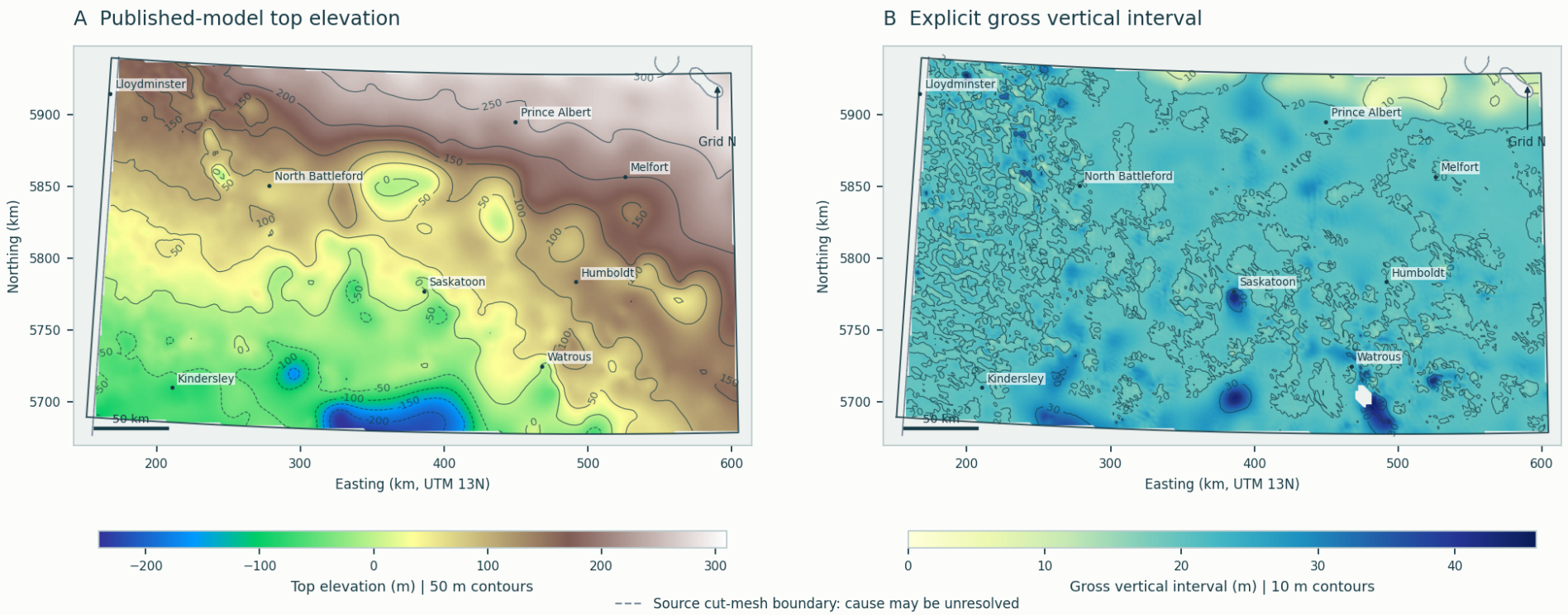
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Pense | regional geometry

Pense top to Cantuar. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



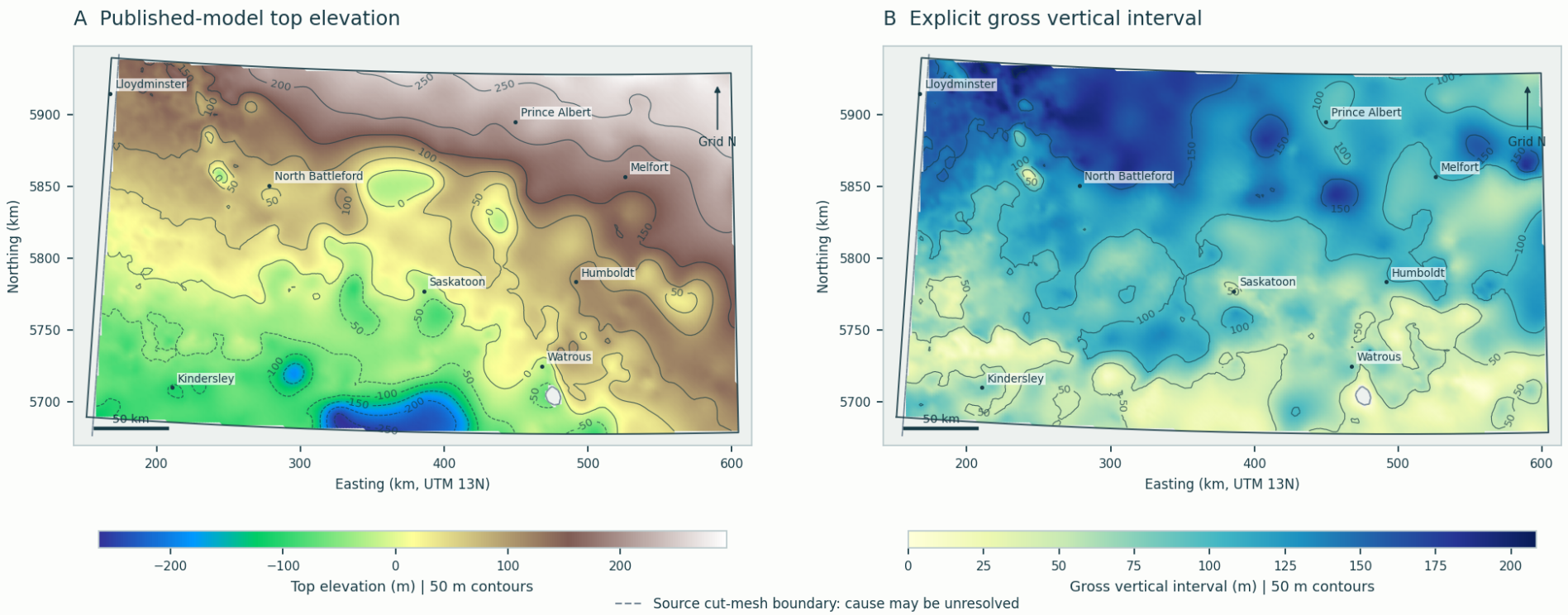
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Cantuar | regional geometry

Cantuar top to Unconformity Sub Cantuar. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



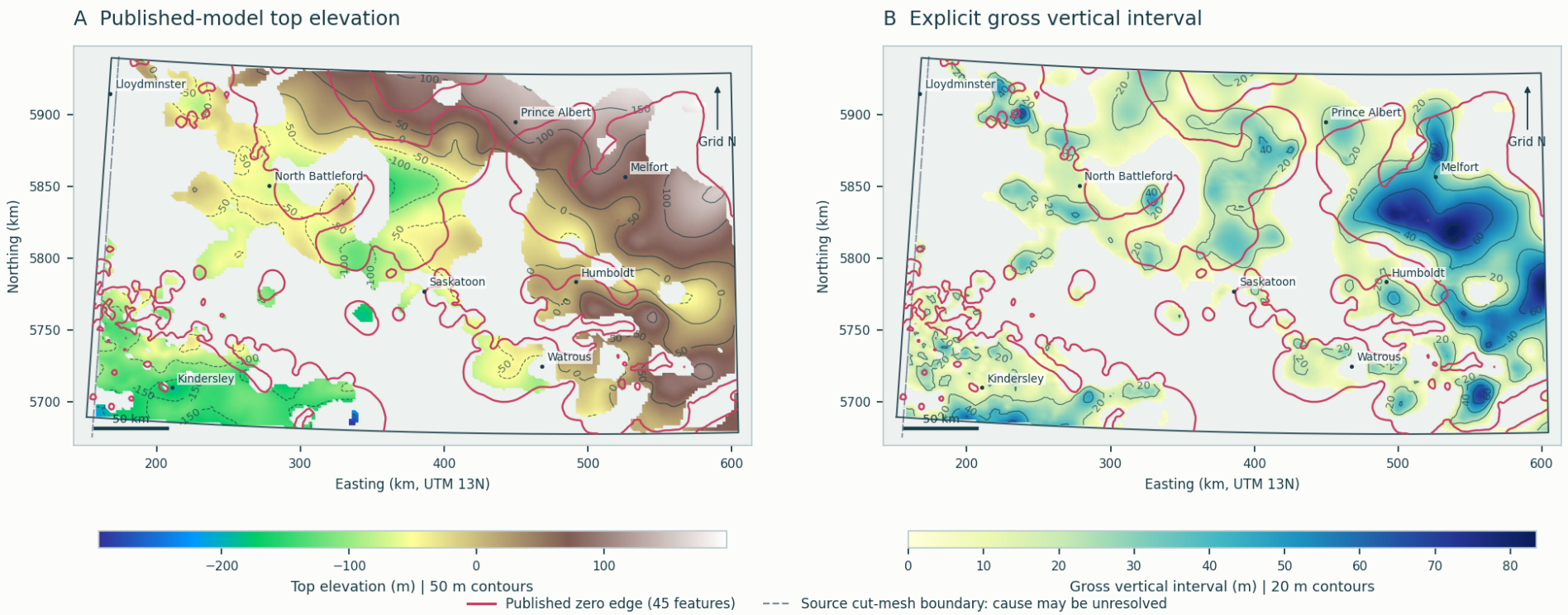
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Success | regional geometry

Unconformity Sub Cantuar top to Unconformity Sub Success. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



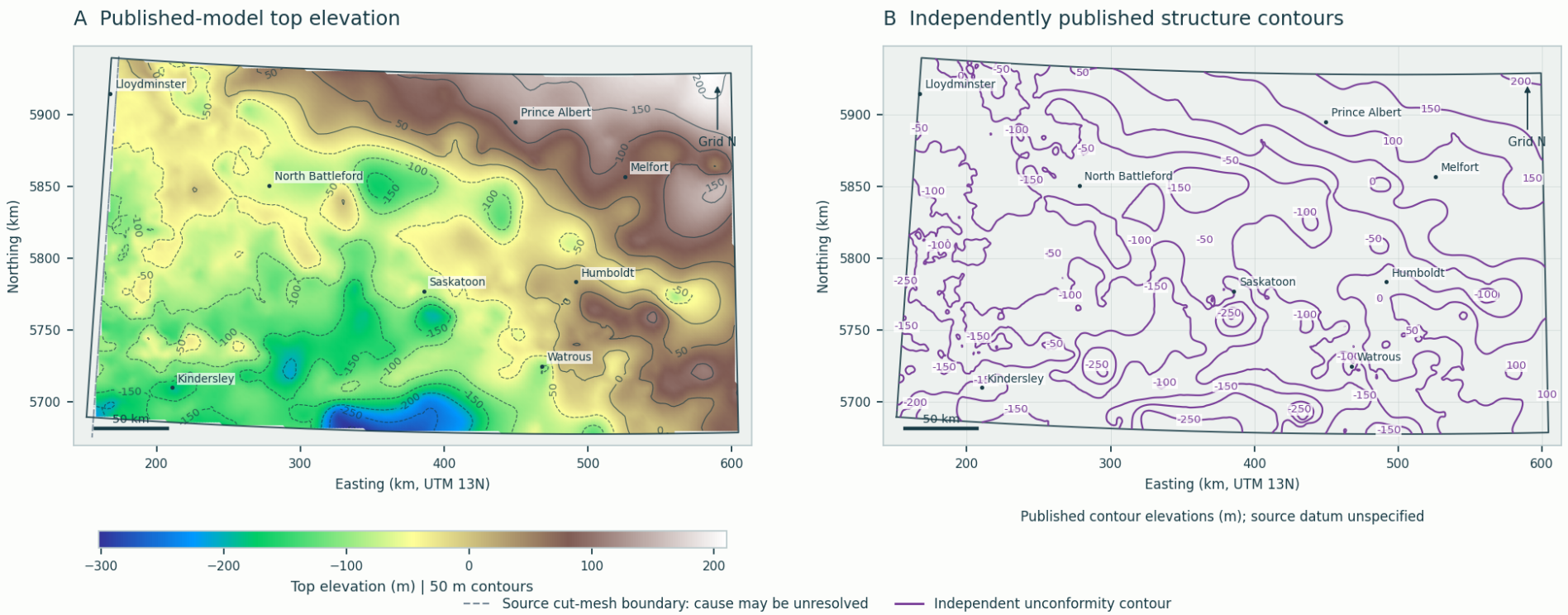
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Sub-Cantuar unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



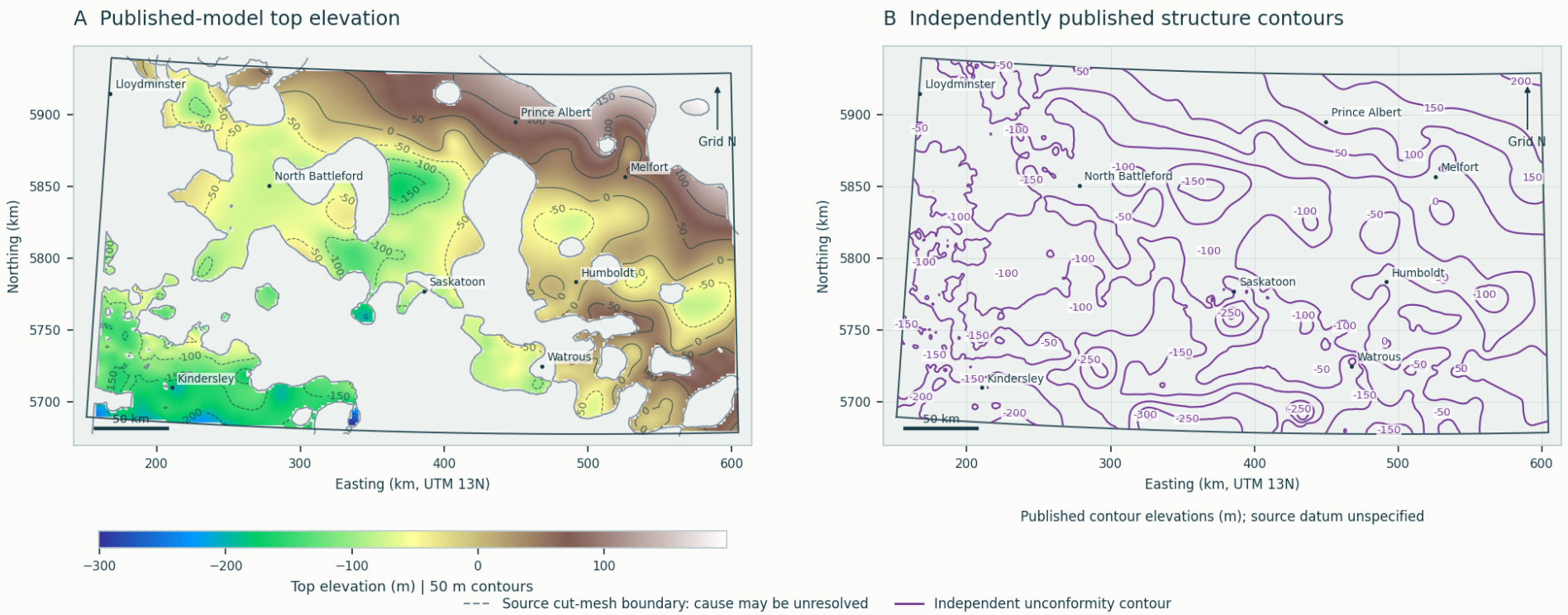
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

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Sub-Success unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



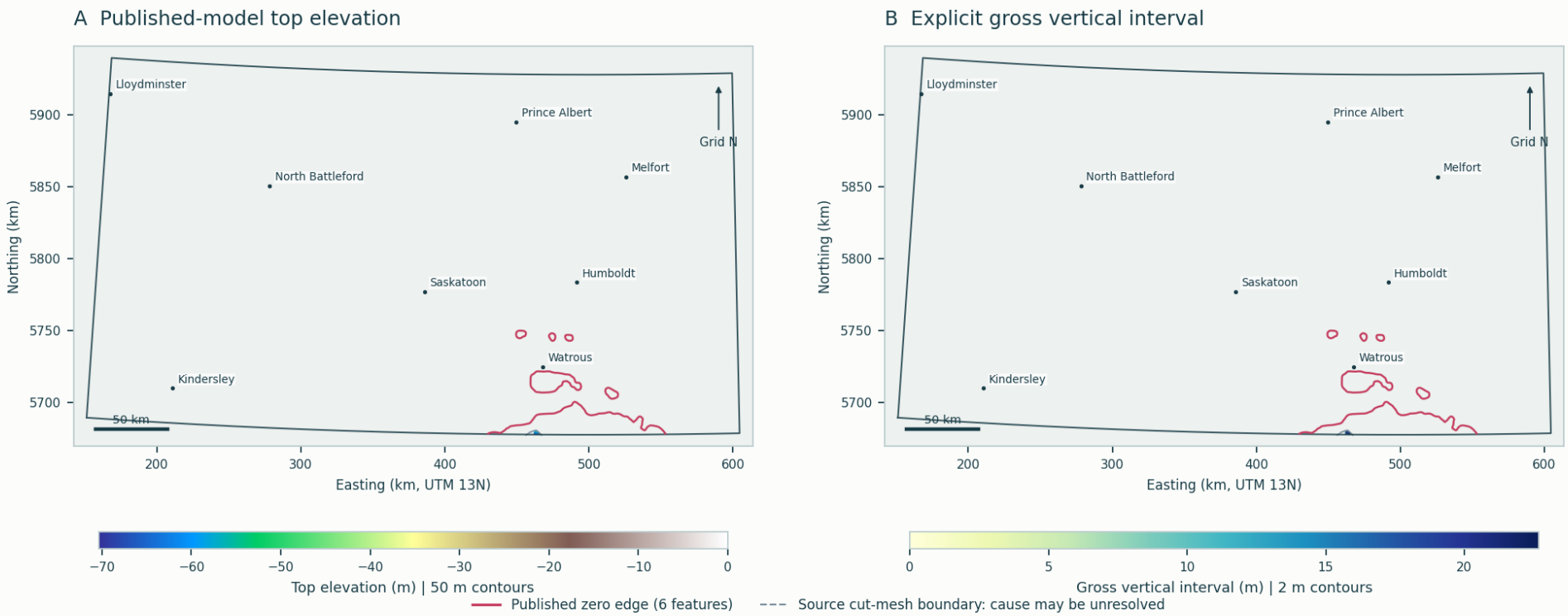
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Lower Shaunavon | regional geometry

Lower Shaunavon top to Upper Gravelbourg. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



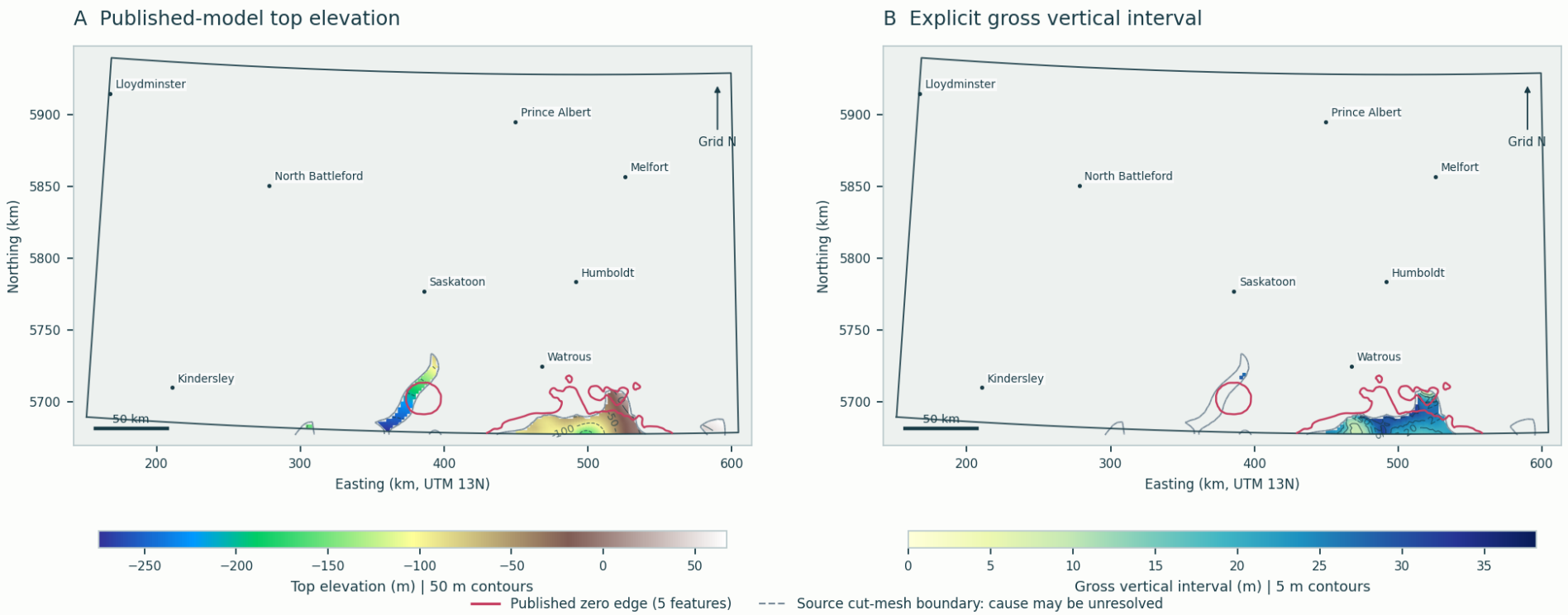
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Small supported remnant: only 7 top nodes; do not infer a local reservoir body from this geometry.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Upper Gravelbourg | regional geometry

Upper Gravelbourg top to Lower Gravelbourg. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



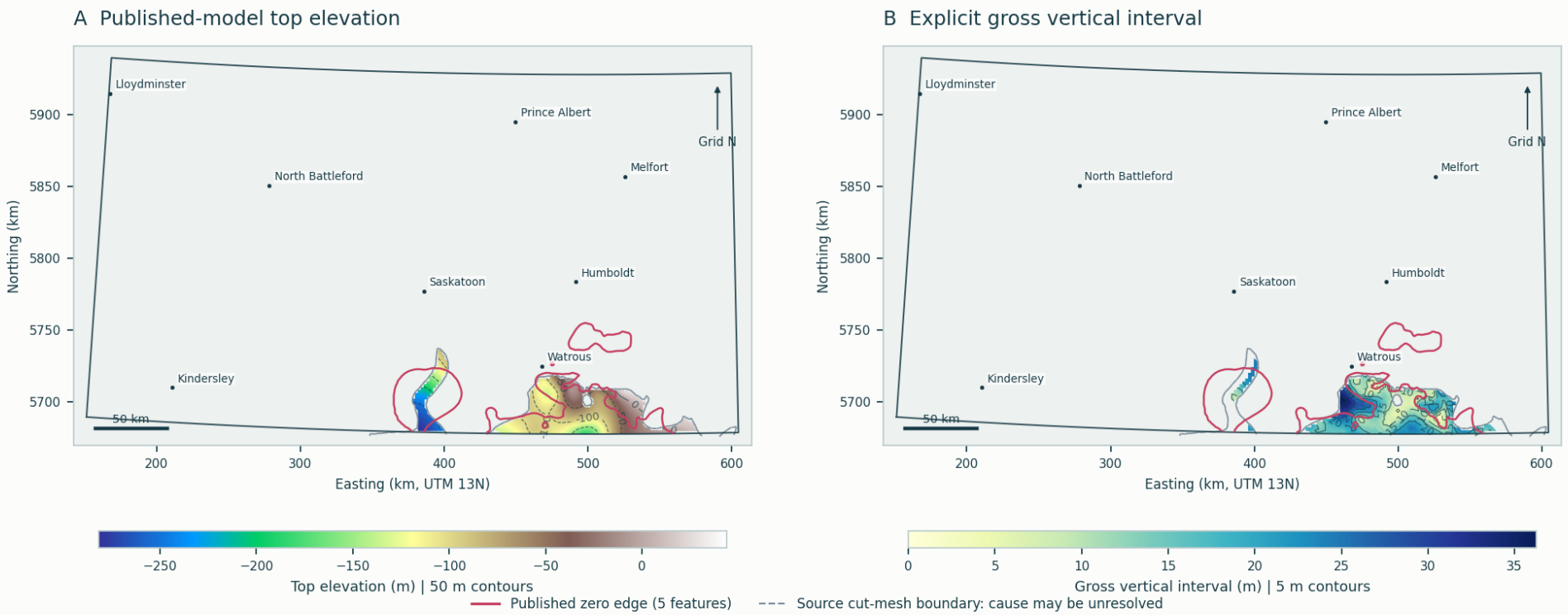
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Lower Gravelbourg | regional geometry

Lower Gravelbourg top to Upper Watrous. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



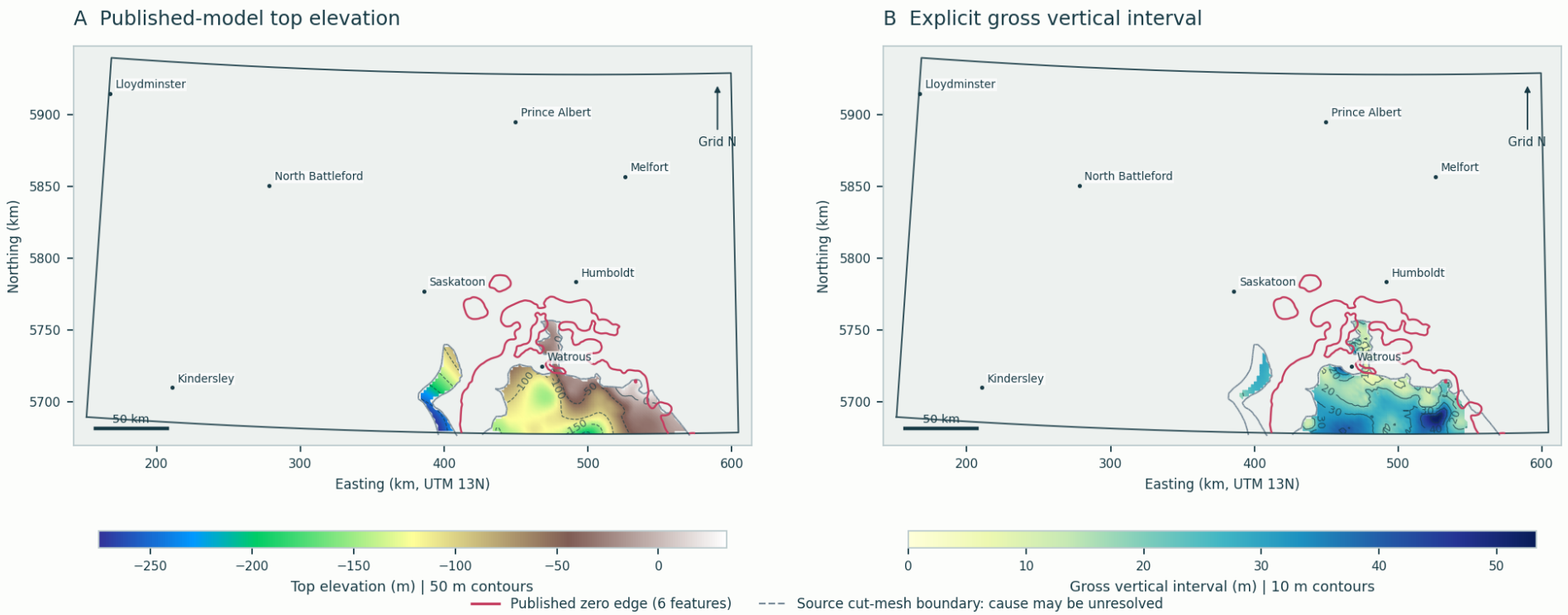
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Upper Watrous | regional geometry

Upper Watrous top to Lower Watrous. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



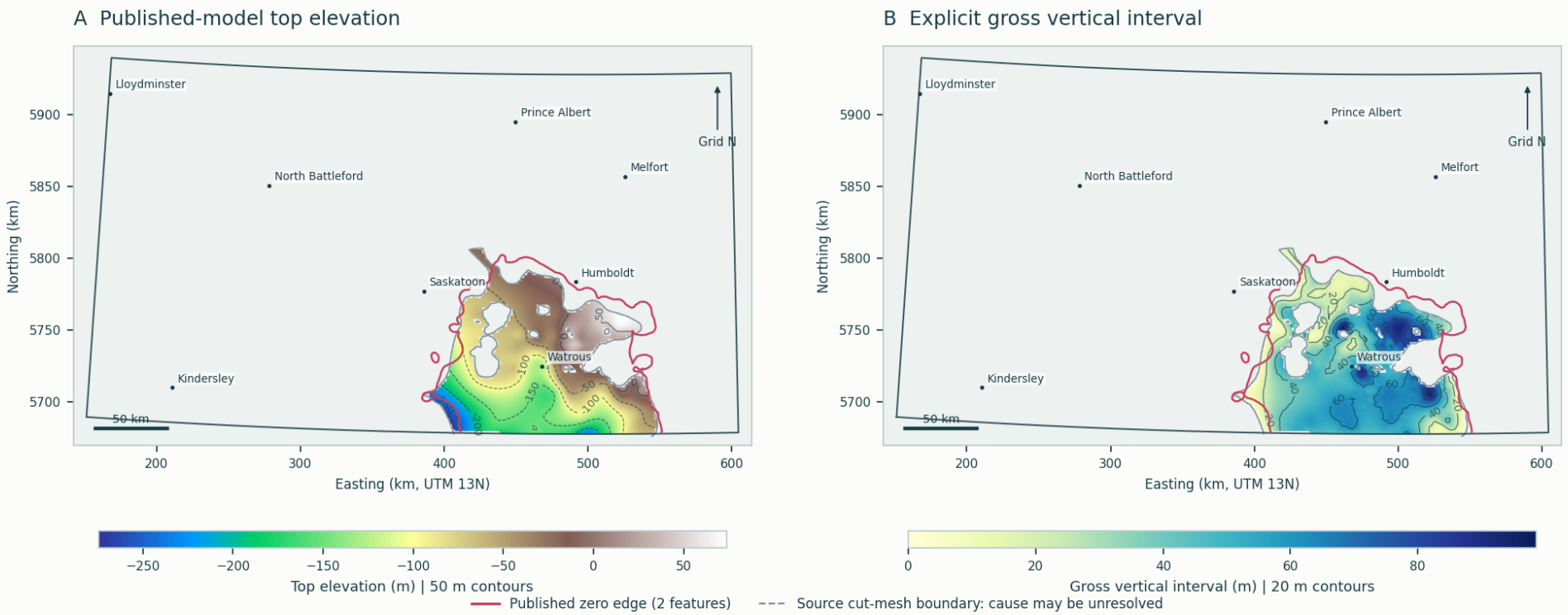
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Lower Watrous | regional geometry

Lower Watrous top to Unconformity Sub Mesozoic. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



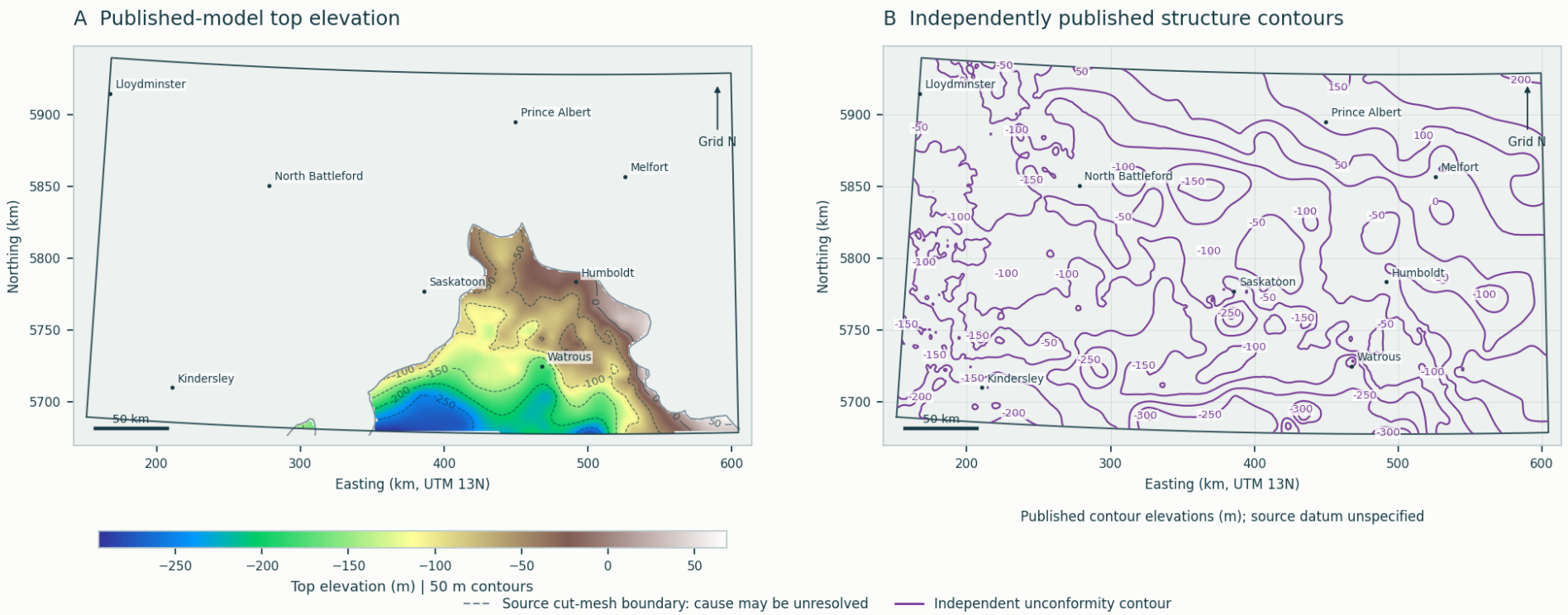
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Sub-Mesozoic unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



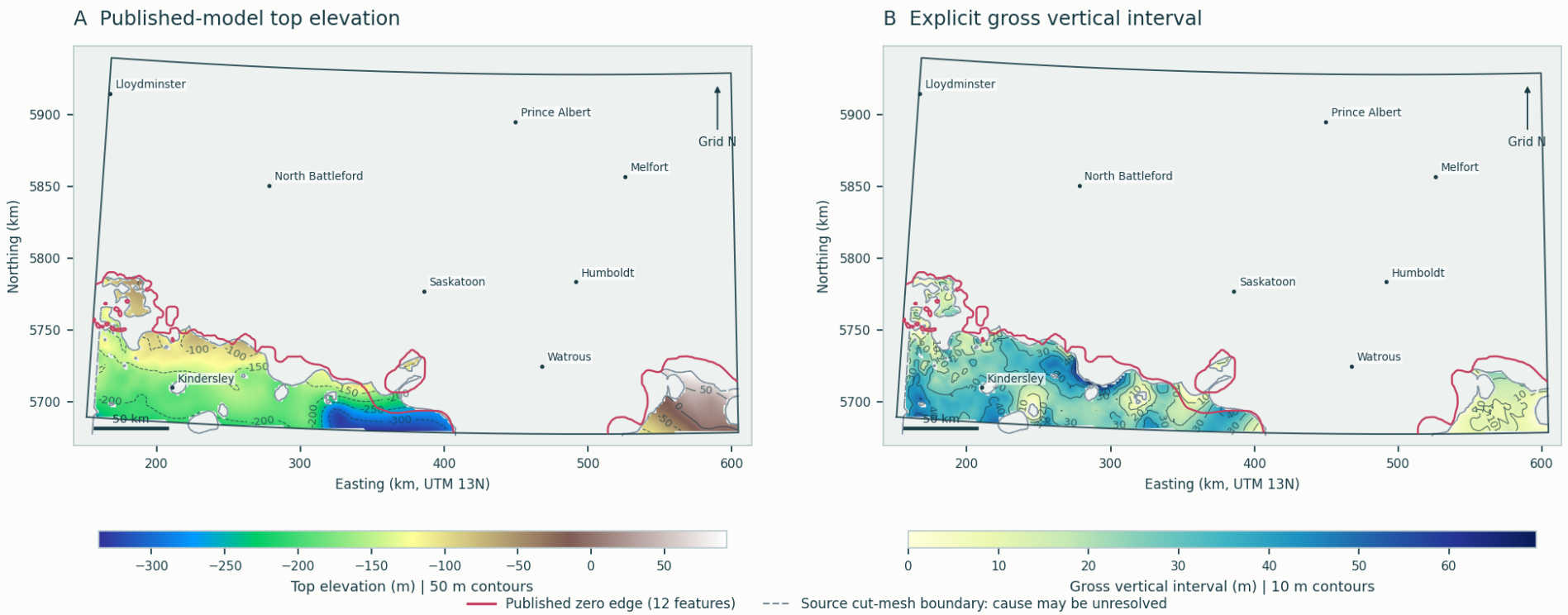
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Bakken | regional geometry

Bakken top to Unconformity Sub Mississippian. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



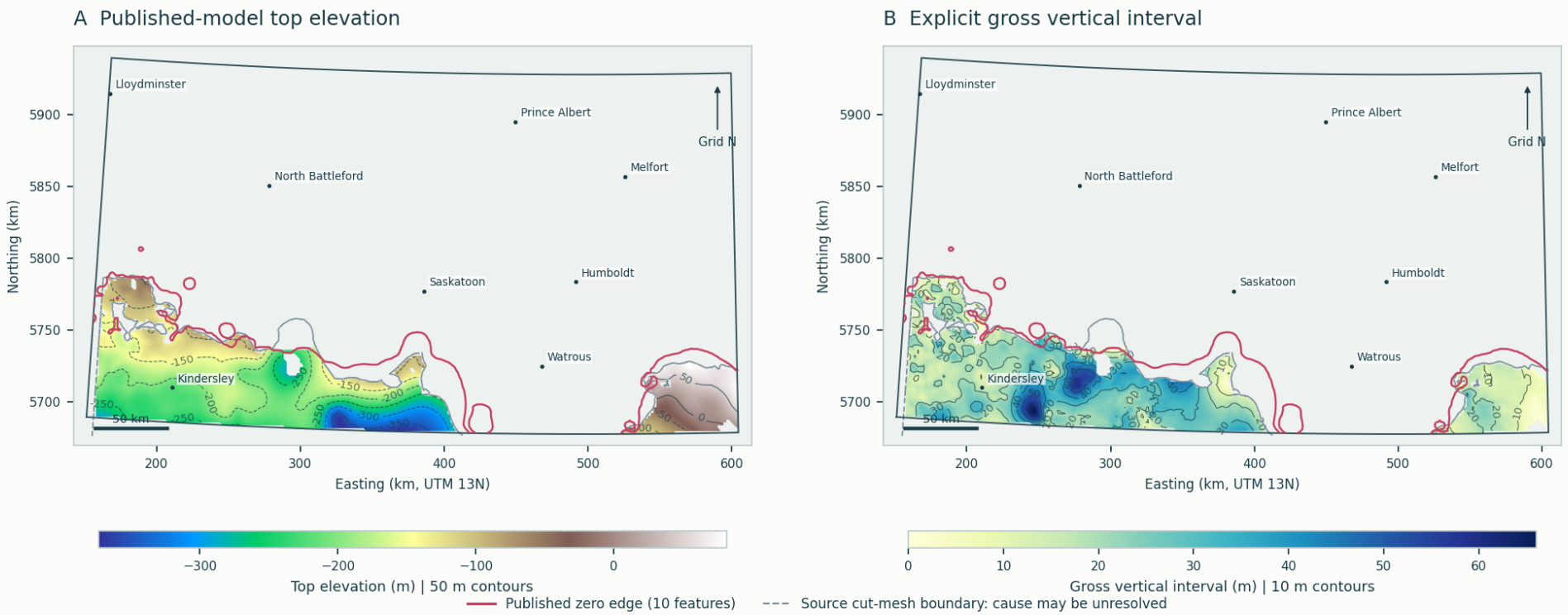
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Big Valley | regional geometry

Unconformity Sub Mississippian top to Torquay. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



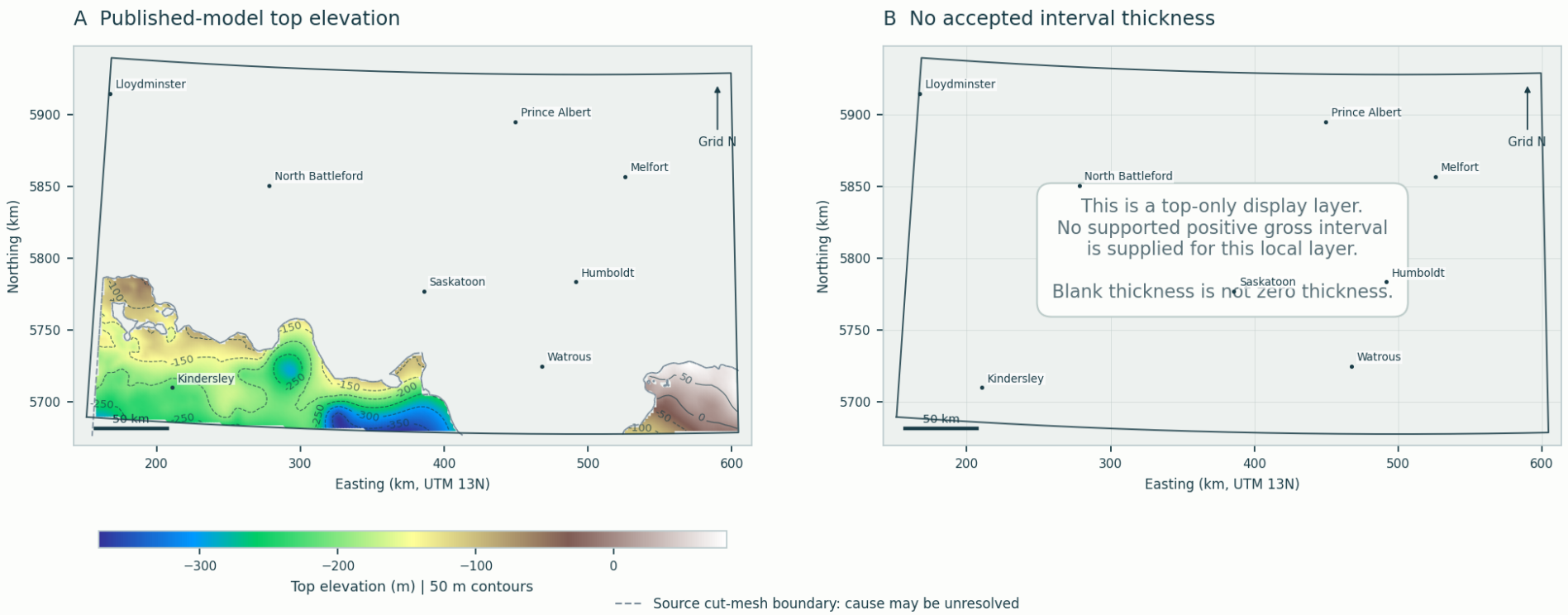
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Sub-Mississippian unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



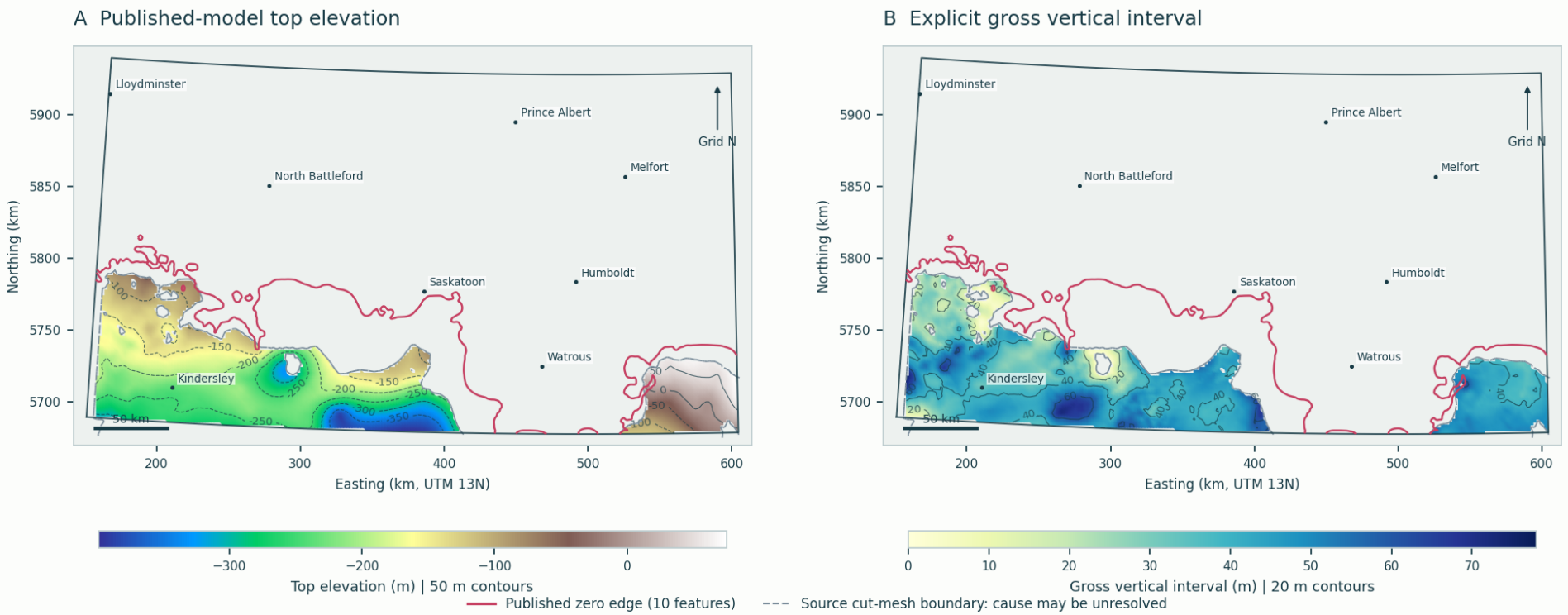
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Torquay | regional geometry

Torquay top to Birdbear. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



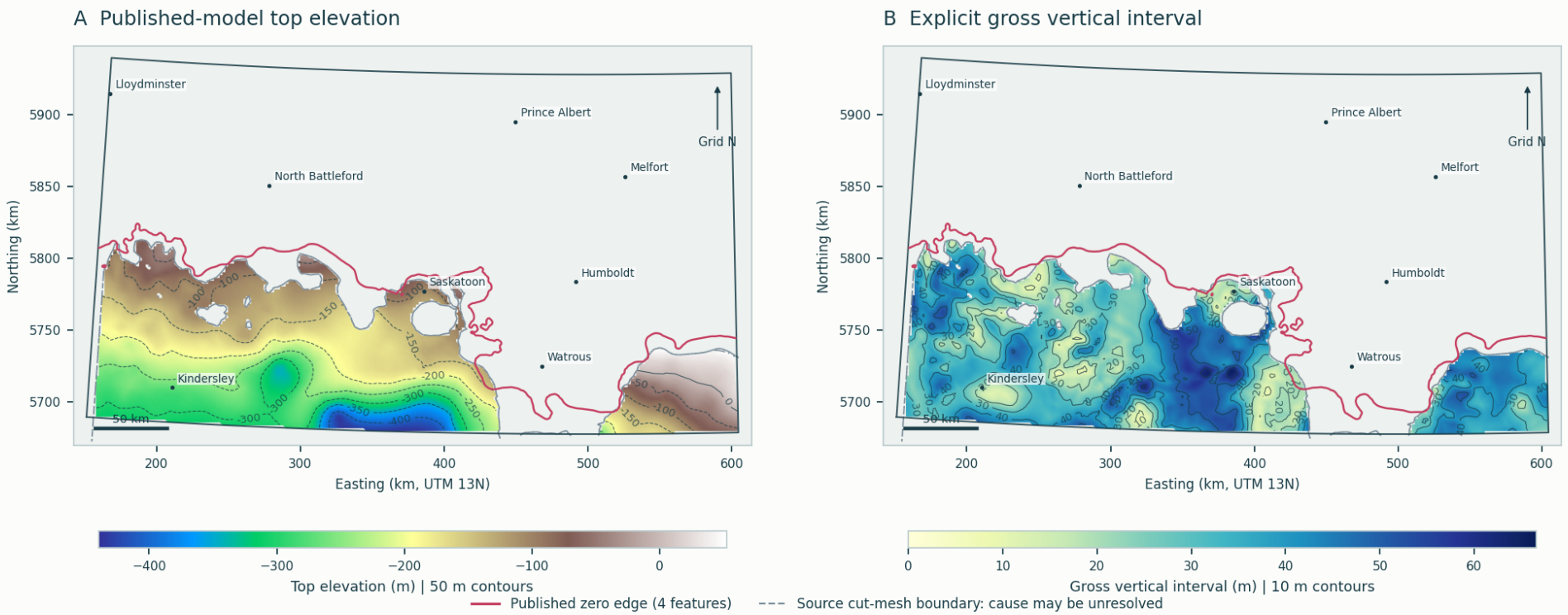
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Birdbear | regional geometry

Birdbear top to Duperow. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



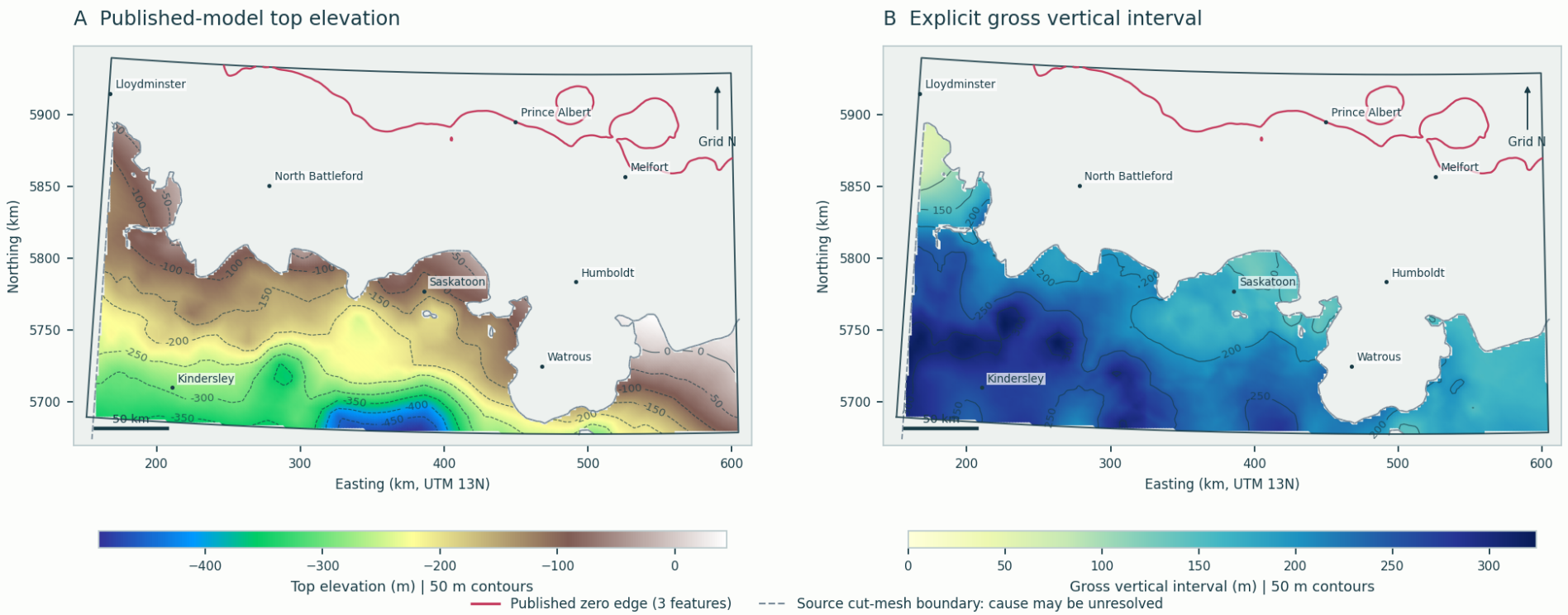
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Duperow | regional geometry

Duperow top to Souris River. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



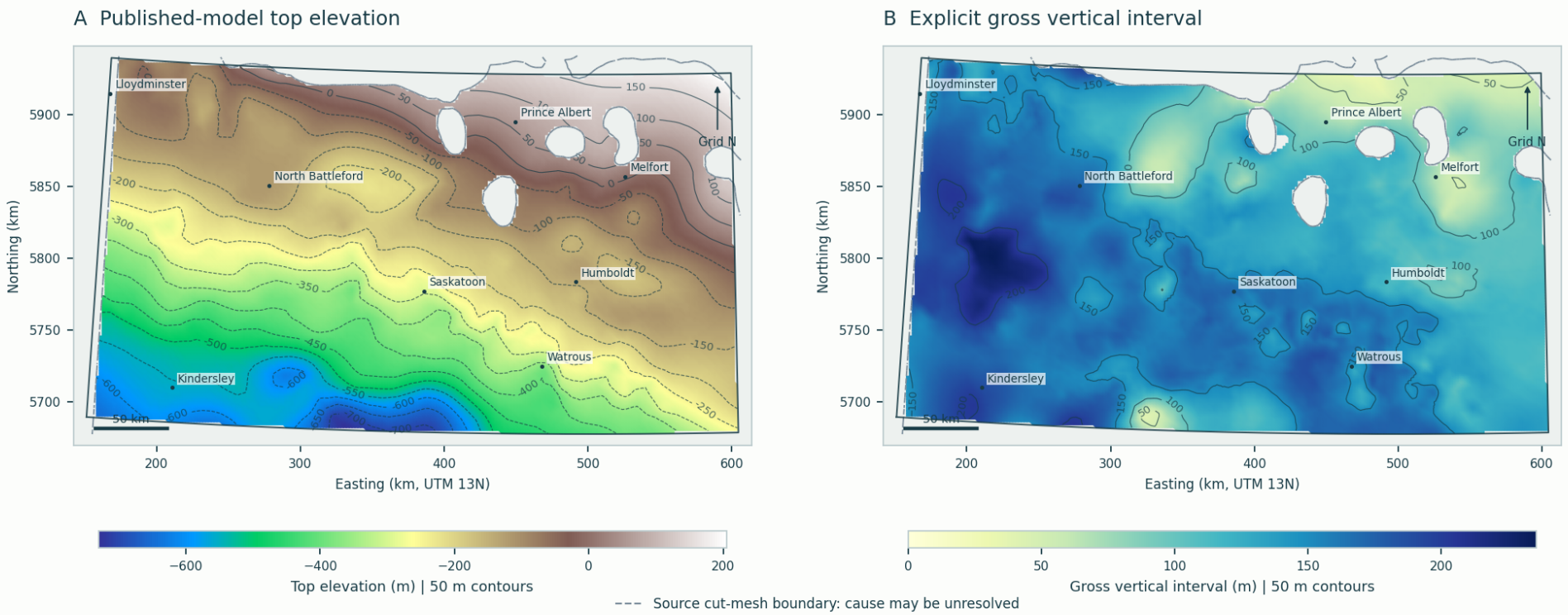
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Souris River | regional geometry

Souris River top to 1st Red Bed. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



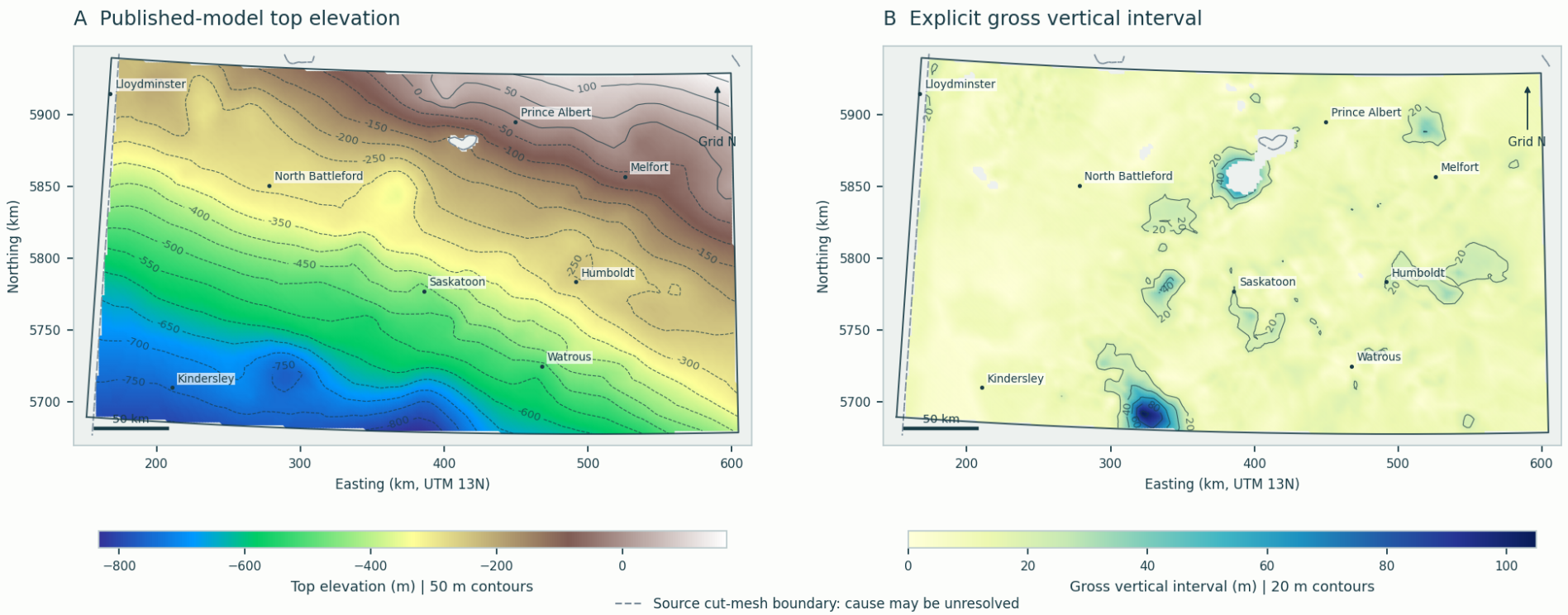
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

1st Red Bed | regional geometry

1st Red Bed top to Dawson Bay. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



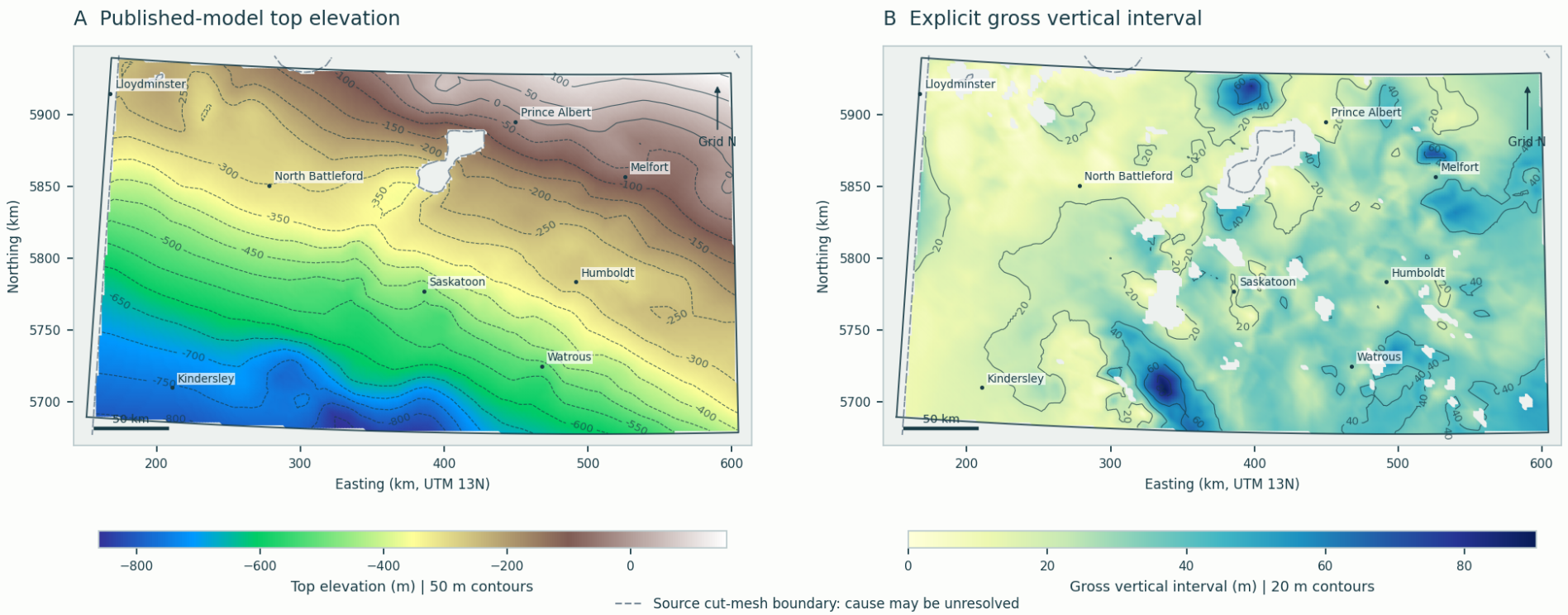
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Dawson Bay | regional geometry

Dawson Bay top to 2nd Red Bed. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

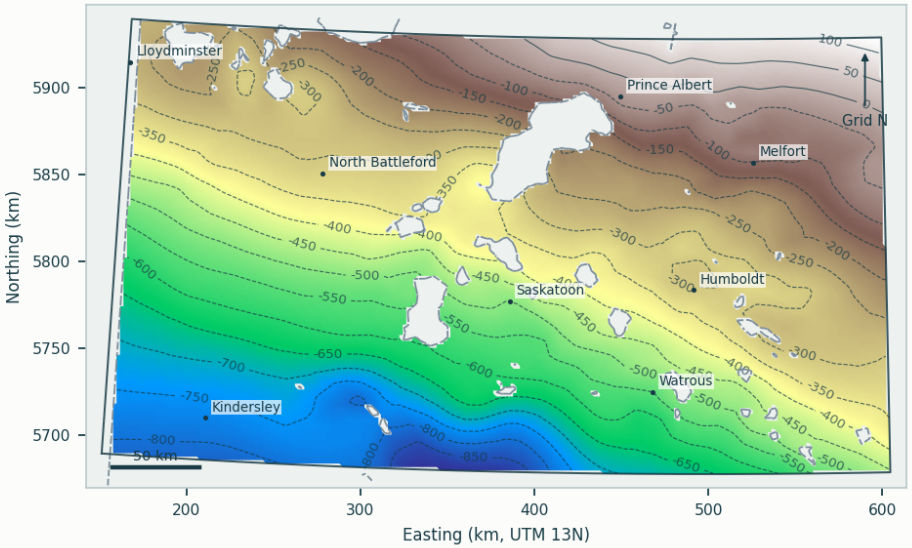
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

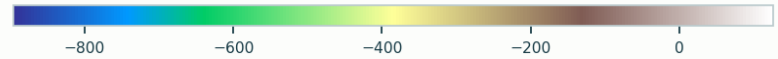
Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

2nd Red Bed | regional geometry

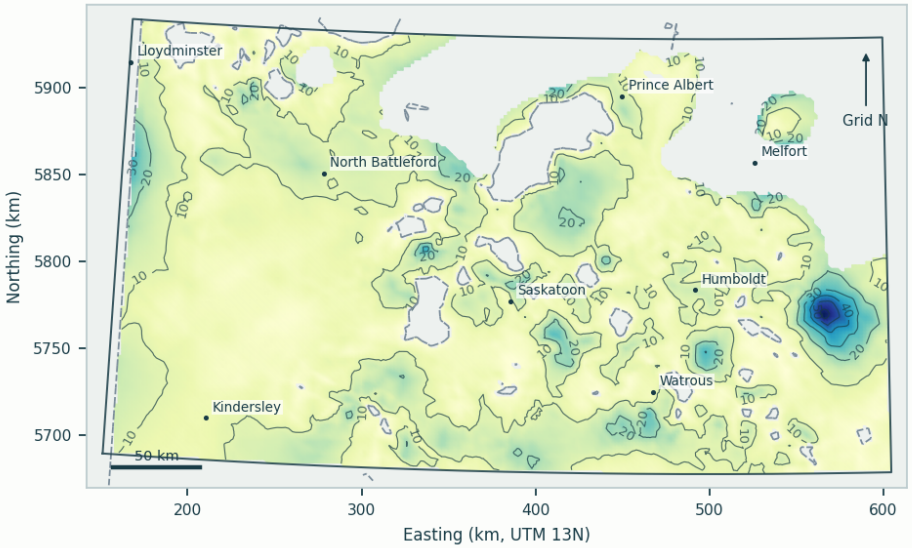
2nd Red Bed top to Prairie Evaporite. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.

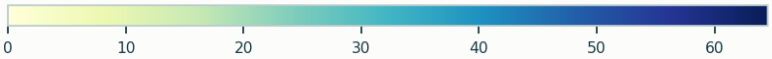
A Published-model top elevation





B Explicit gross vertical interval





Source cut-mesh boundary: cause may be unresolved

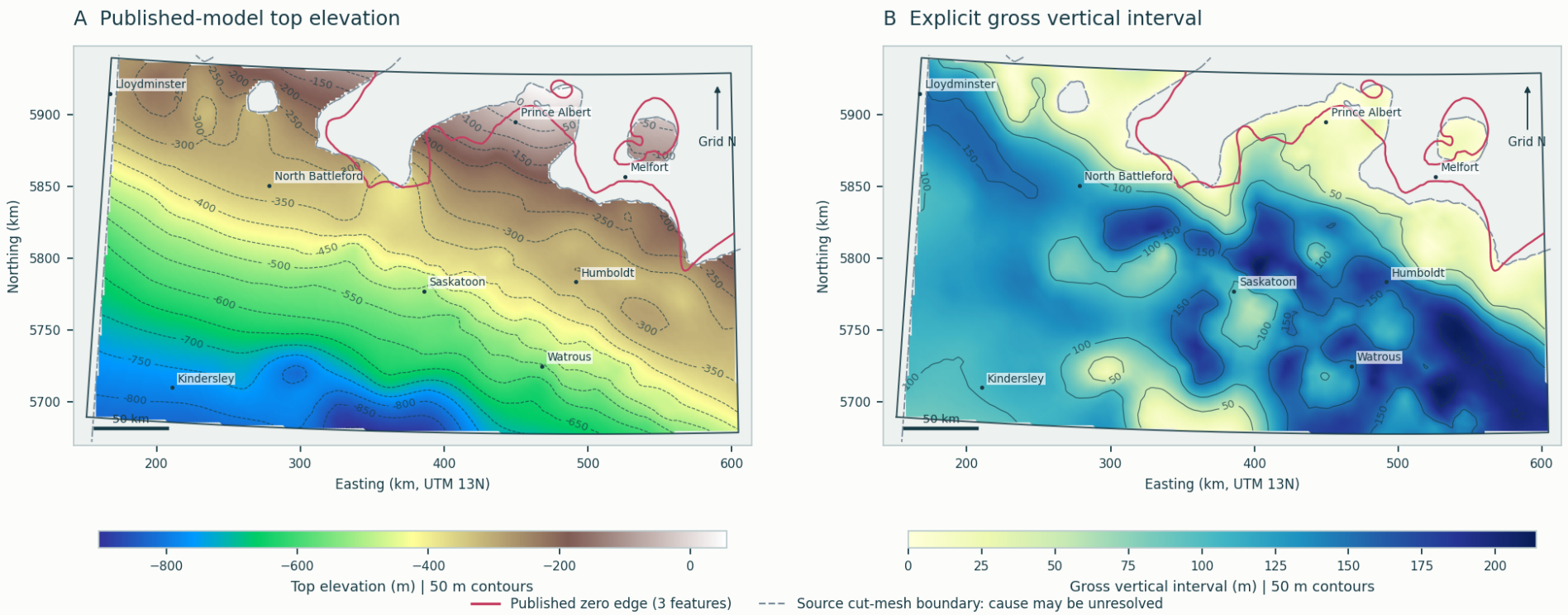
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Prairie Evaporite | regional geometry

Prairie Evaporite top to Winnipegosis. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



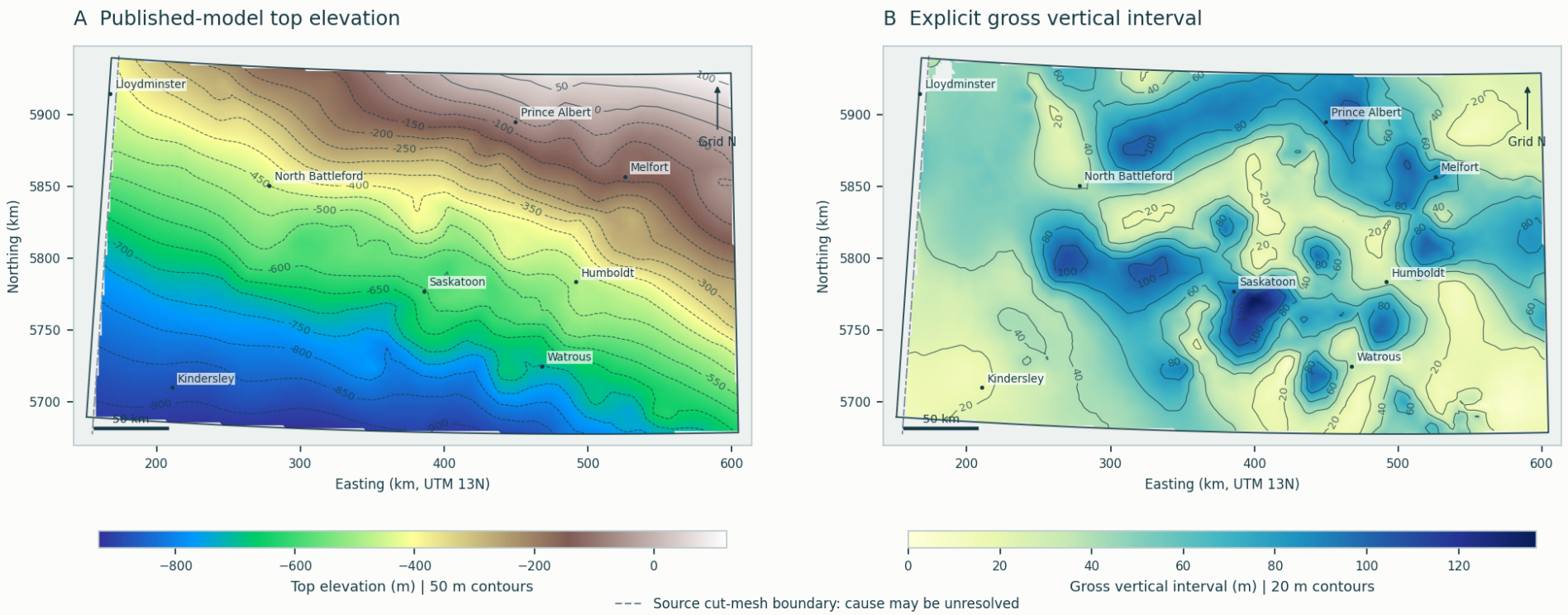
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Winnipegosis | regional geometry

Winnipegosis top to Ashern. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



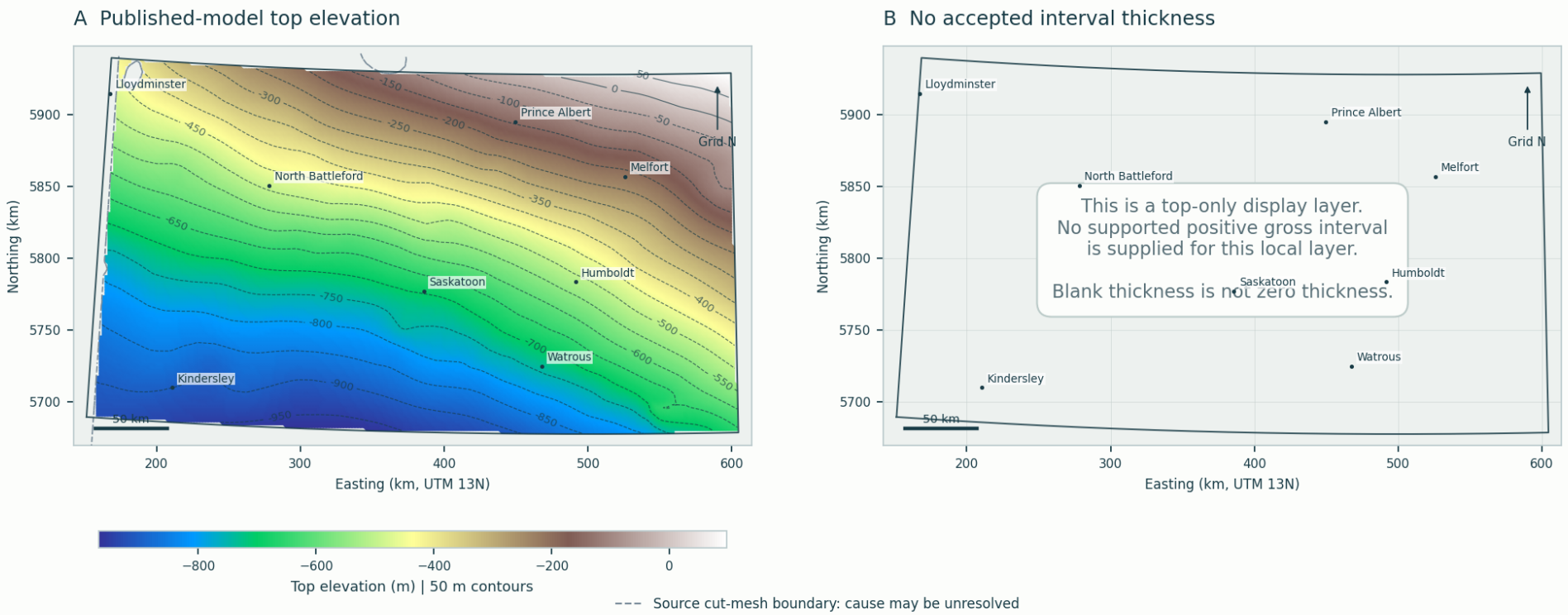
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Ashern | regional geometry

Ashern top to Meadow Lake. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



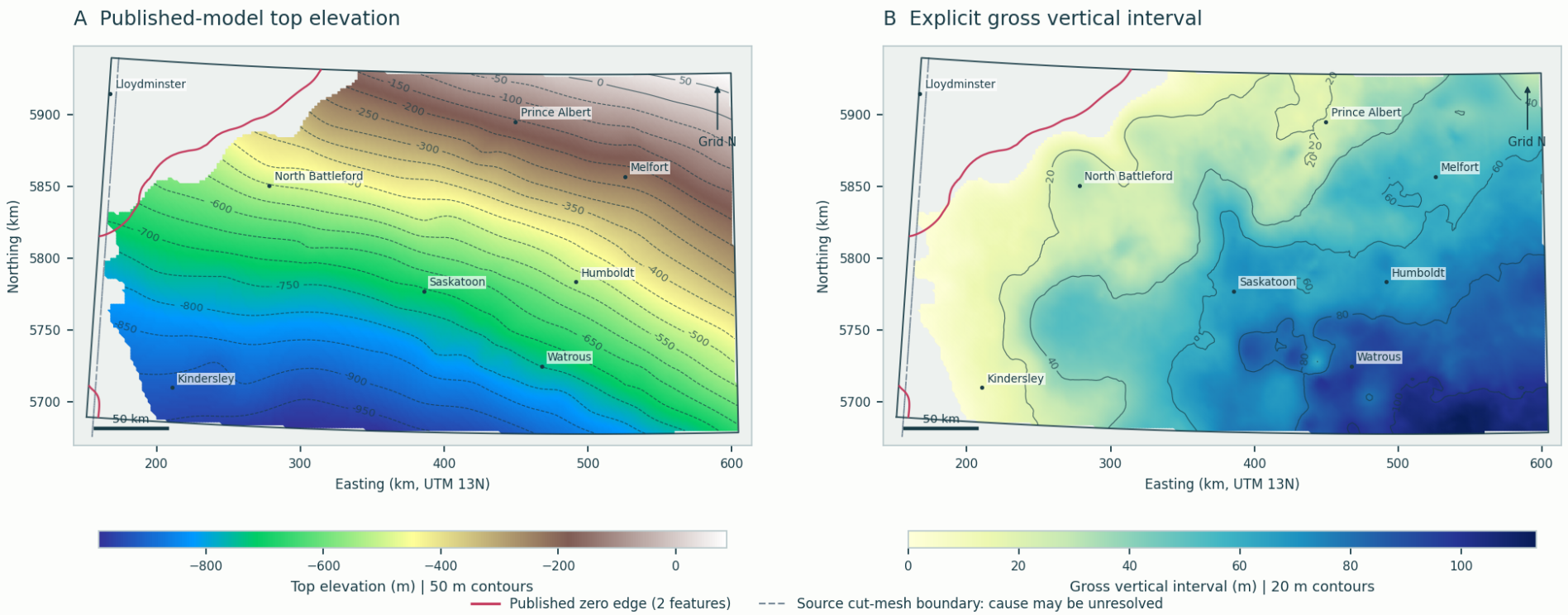
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Interlake | regional geometry

Unconformity Top LPaleo top to Stonewall. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

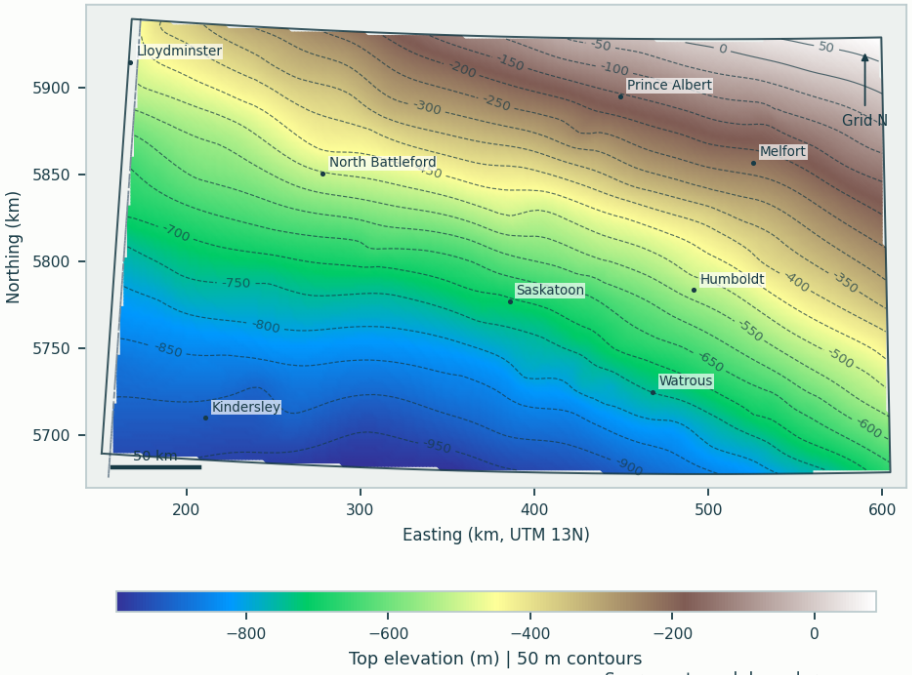
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

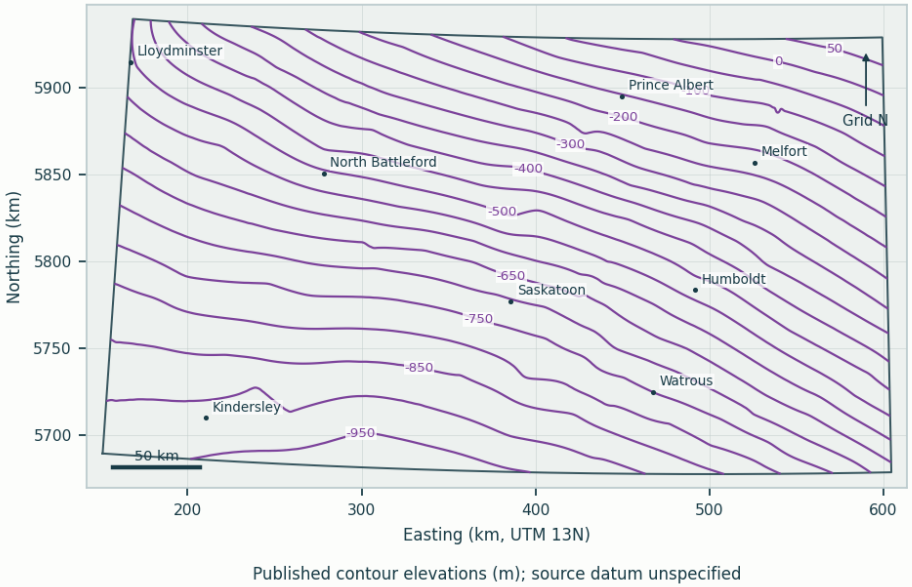
Top Lower Paleozoic unconformity | regional geometry

Erosional surface only; no thickness.. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.

A Published-model top elevation



B Independently published structure contours



Source cut-mesh boundary: cause may be unresolved

Independent unconformity contour

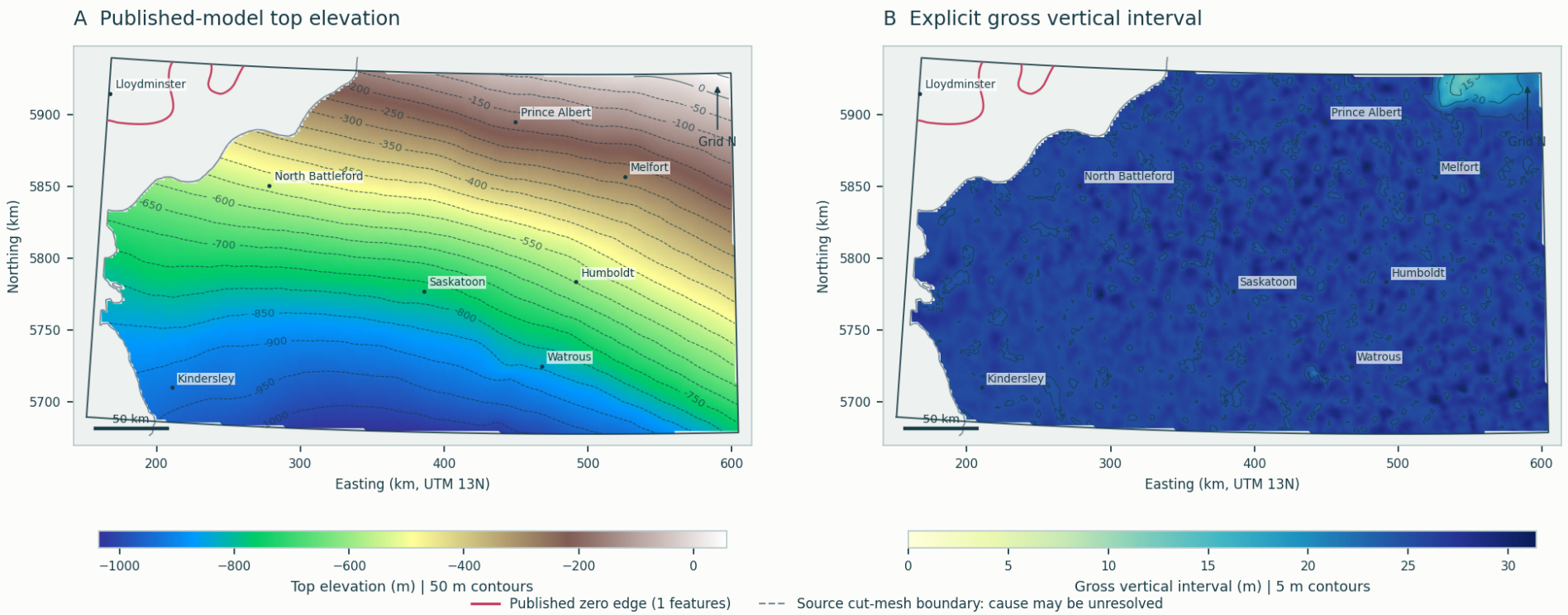
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Stonewall | regional geometry

Stonewall top to Stony Mountain. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



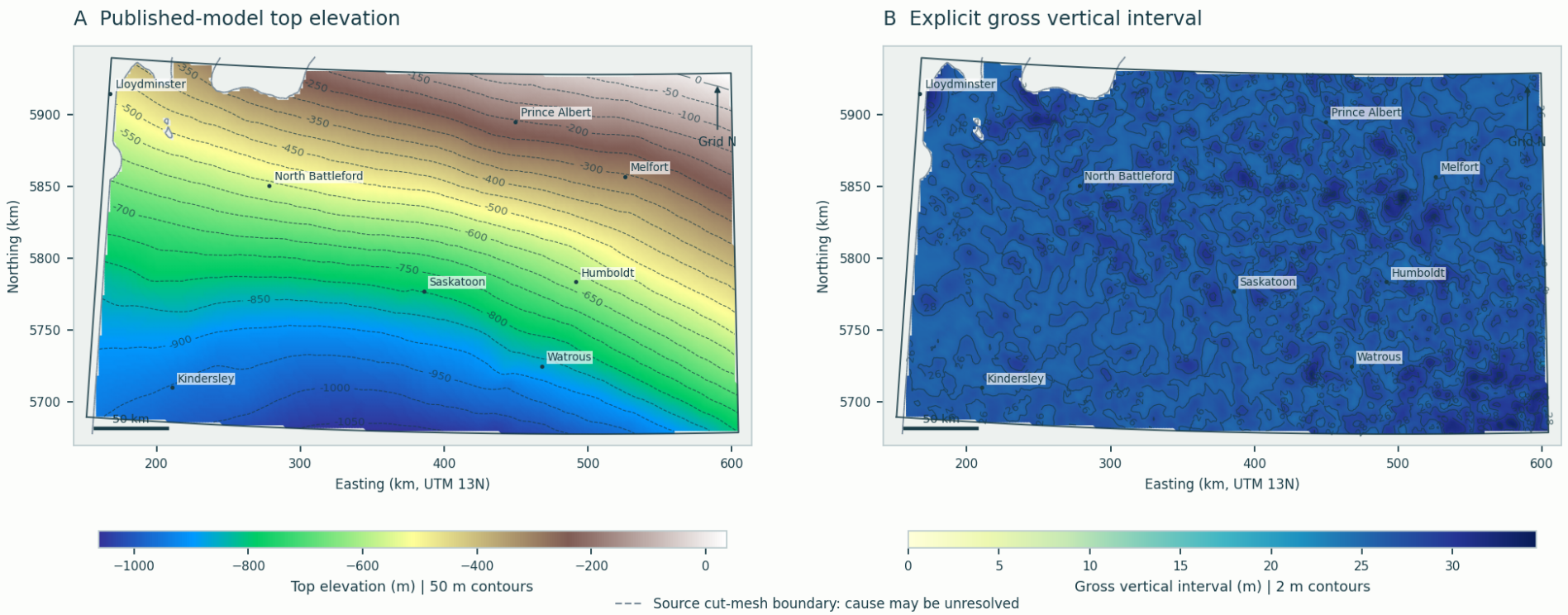
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Stony Mountain | regional geometry

Stony Mountain top to Red River. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



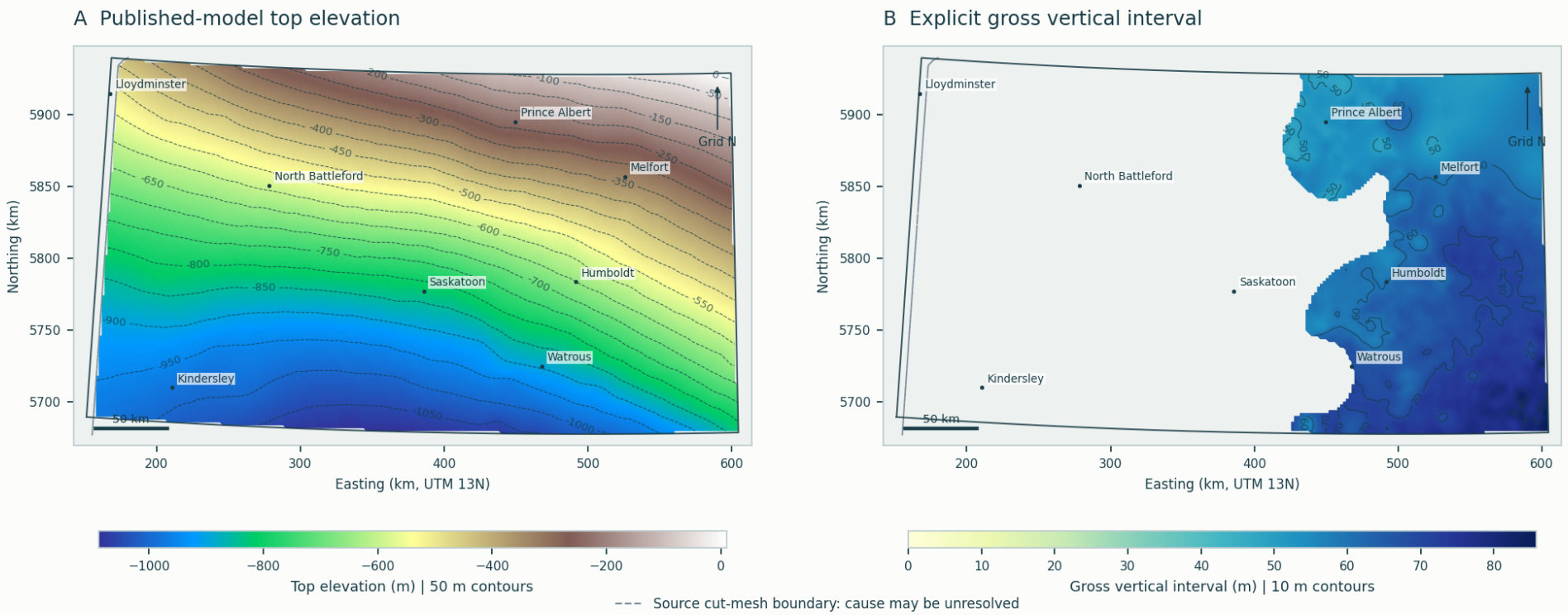
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Red River | regional geometry

Red River top to Winnipeg. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



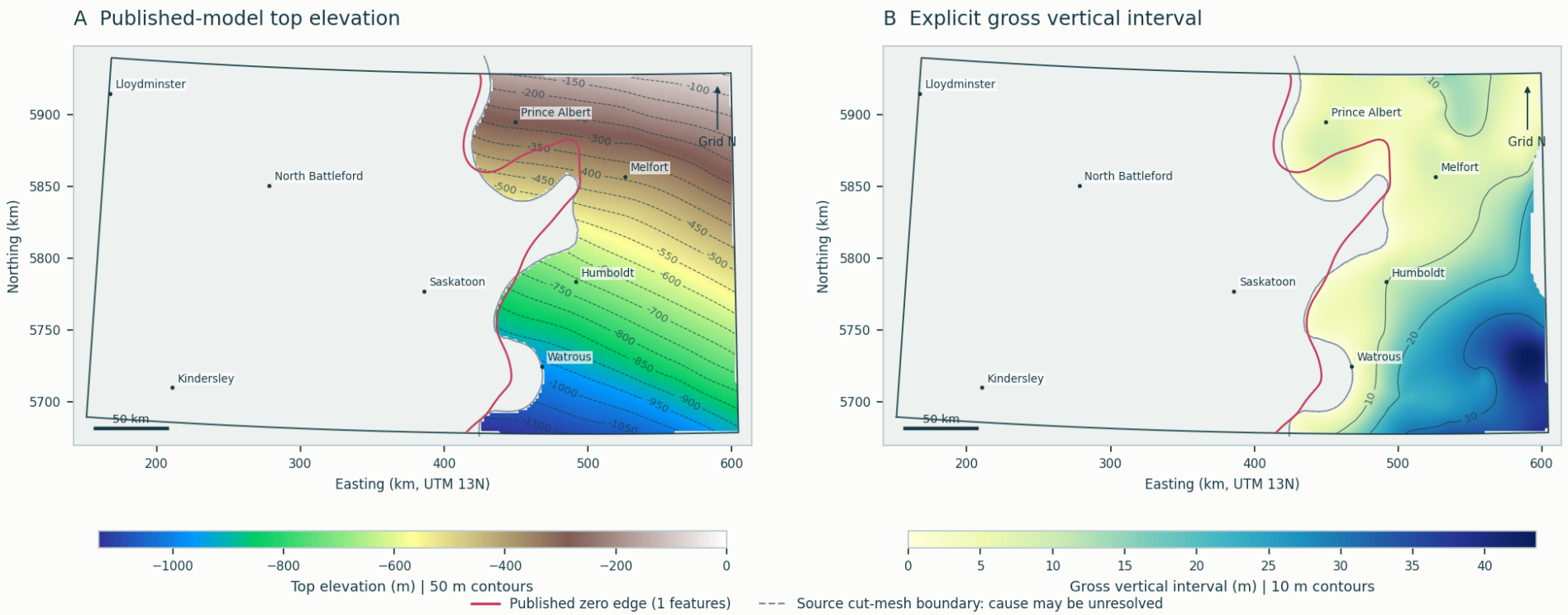
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Winnipeg | regional geometry

Winnipeg top to Deadwood. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



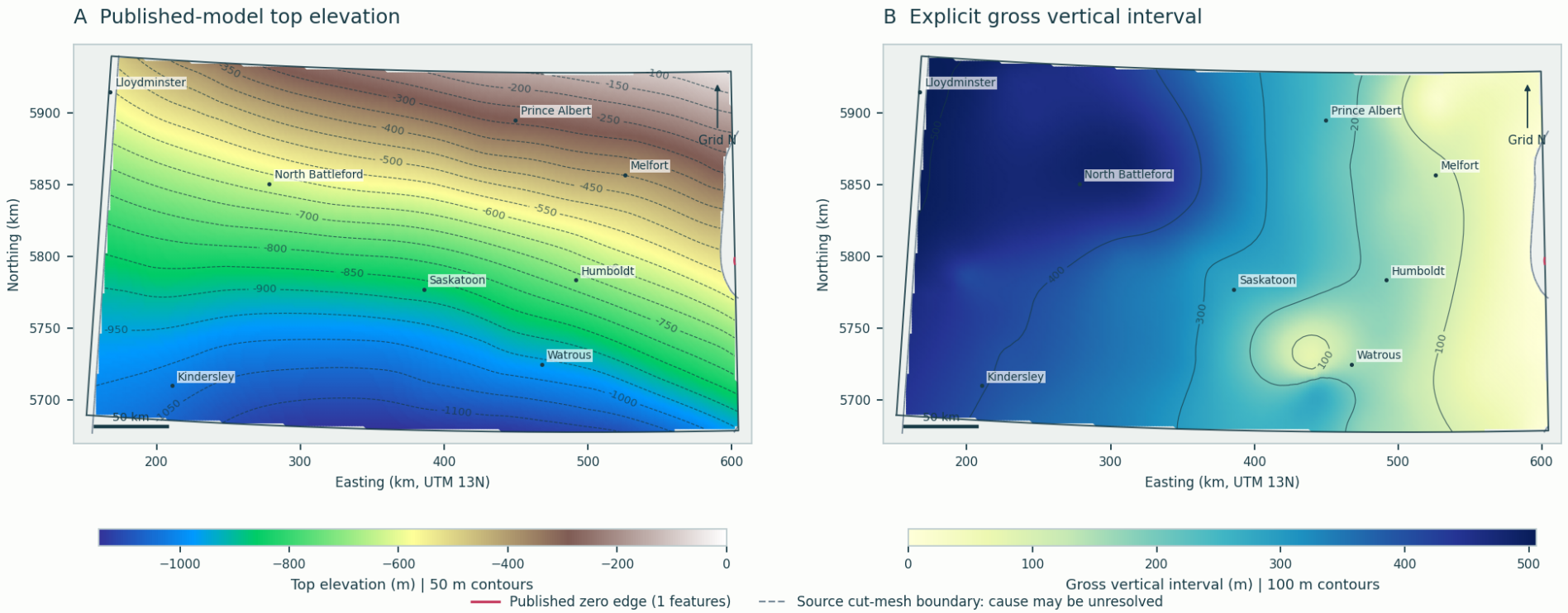
Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

Deadwood | regional geometry

Published Deadwood top to Precambrian: composite basal Cambrian–Ordovician interval, including Earlie/basal Cambrian sandstone where present..
Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.



Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

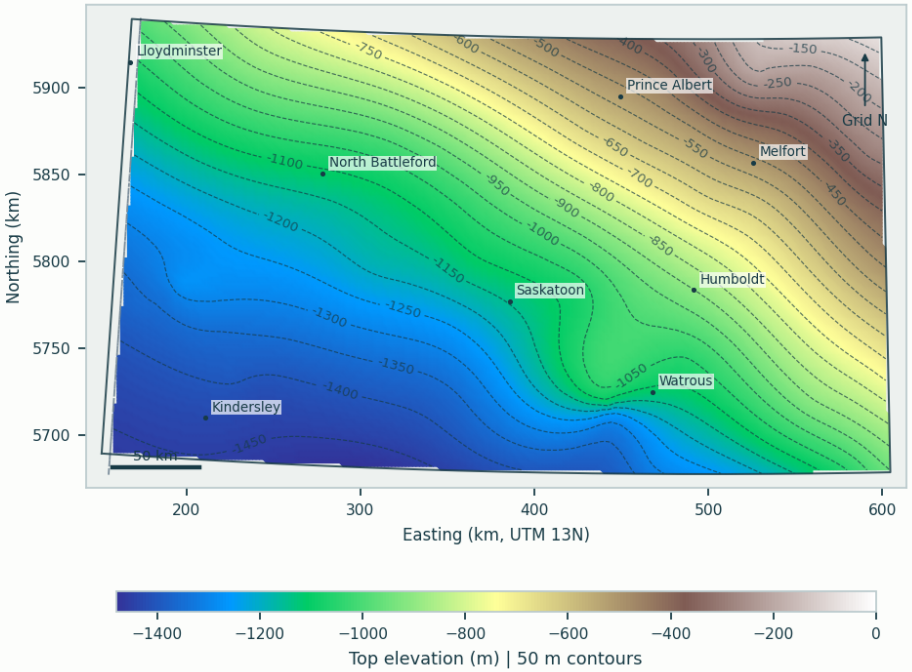
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

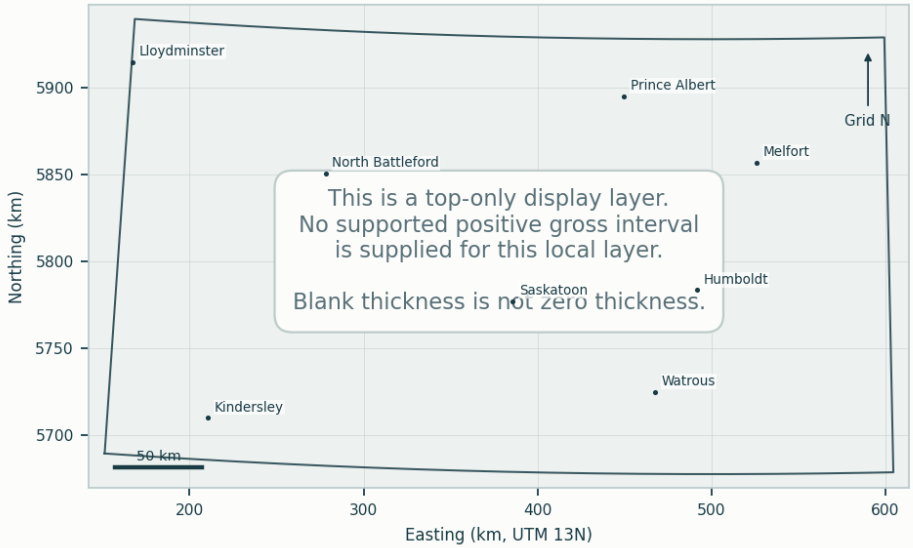
Precambrian | regional geometry

Precambrian top to unknown basement base. Source elevation reference: metres, positive upward, mean sea level as declared in OF 8969; no datum conversion.

A Published-model top elevation



B No accepted interval thickness



Source cut-mesh boundary: cause may be unresolved

Geometry: Bédard et al. (2023), GSC OF 8969 [S01]. Edge linework: Marsh & Love (2014), SGS OF 2014-1 [S02].

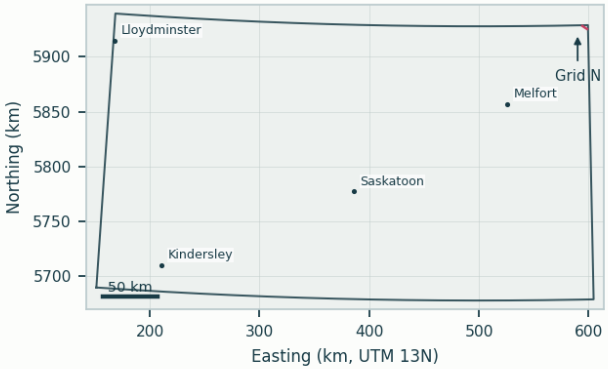
Blank / grey areas lack accepted support. Grid spacing is 2 km; displayed contours do not imply finer source accuracy.

Gross interval is top minus the named base, not net reservoir or net pay. Zero edges retain their published meaning; no new pinch-out origin is assigned.

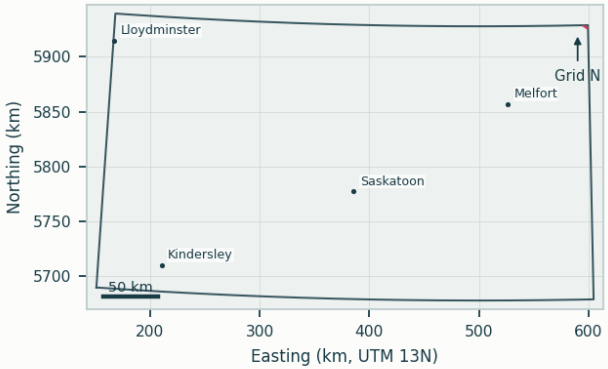
Independent published formation limits

These mapped source units lack a direct supported numerical layer in this model. Their zero edges remain valid documentary evidence on their own source basis.

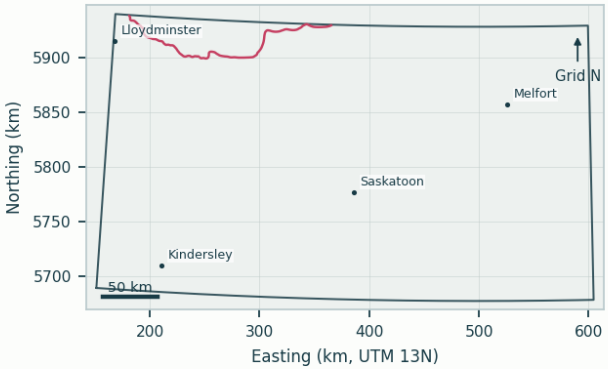
Colorado (1 source features)



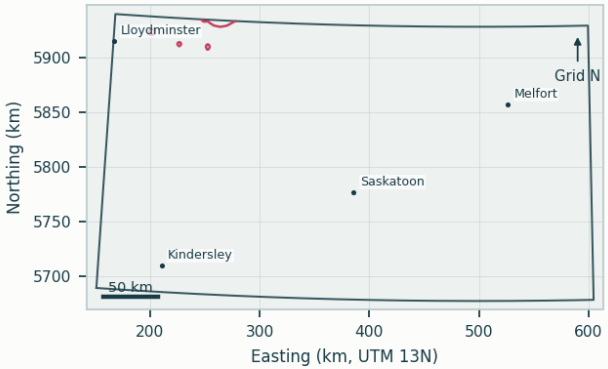
Lower Colorado (1 source features)



St Walburg (2 source features)



Flotten Lake (4 source features)



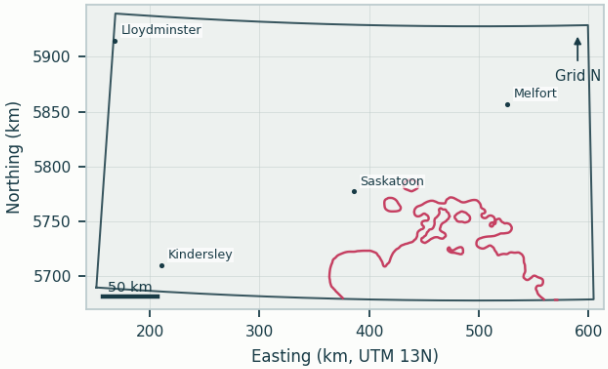
Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Coordinates transformed to EPSG:26913; linework clipped only at the study boundary.

A published zero edge does not establish whether the cause is deposition, erosion or another absence mechanism. ZLEVEL is not used as elevation.

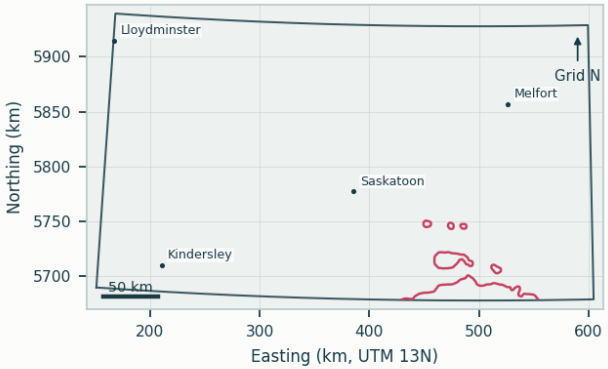
Independent published formation limits

These mapped source units lack a direct supported numerical layer in this model. Their zero edges remain valid documentary evidence on their own source basis.

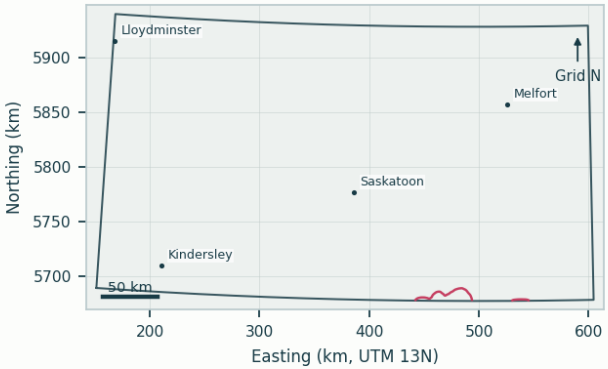
Jurassic (6 source features)



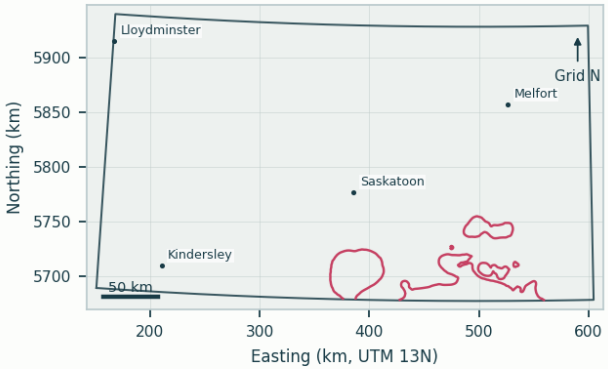
Shaunavon (6 source features)



Upper Shaunavon (1 source features)



Gravelbourg (6 source features)



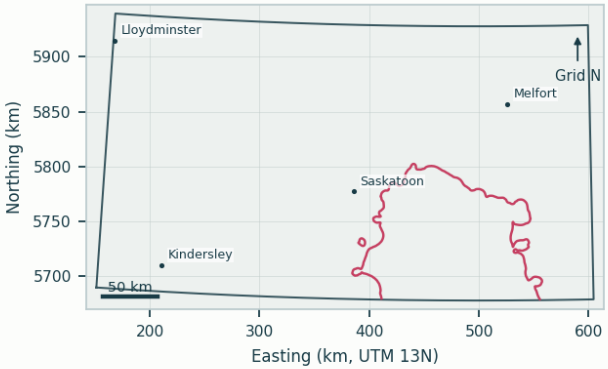
Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Coordinates transformed to EPSG:26913; linework clipped only at the study boundary.

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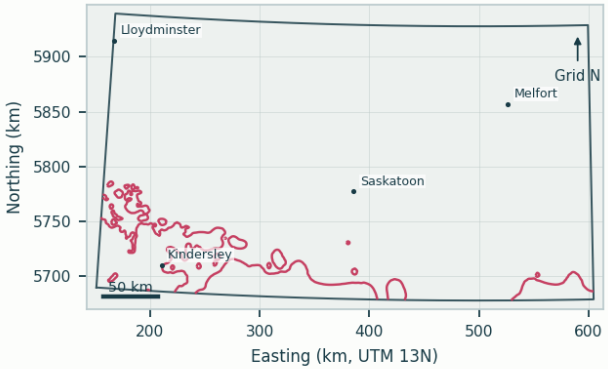
Independent published formation limits

These mapped source units lack a direct supported numerical layer in this model. Their zero edges remain valid documentary evidence on their own source basis.

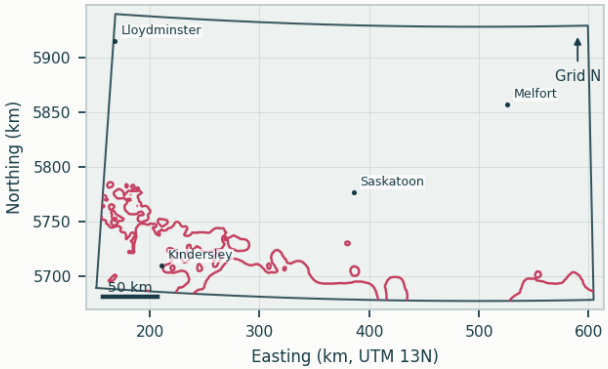
Watrous (2 source features)



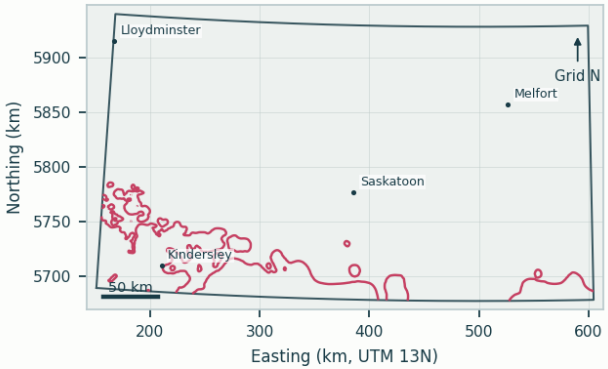
Mississippian (25 source features)



Madison (27 source features)



Souris Valley (27 source features)



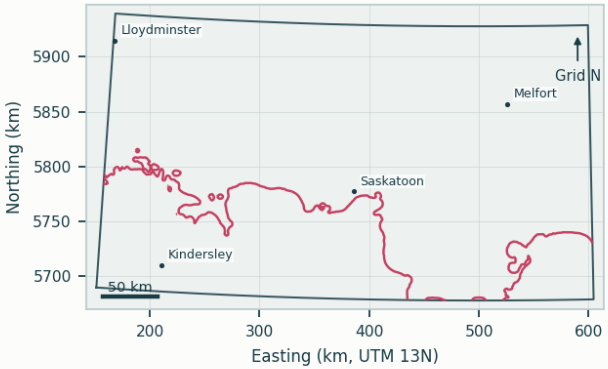
Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Coordinates transformed to EPSG:26913; linework clipped only at the study boundary.

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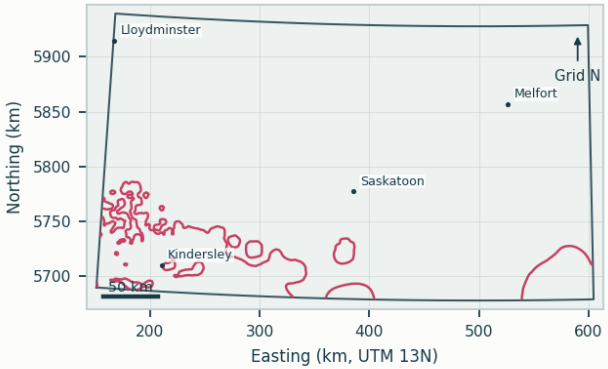
Independent published formation limits

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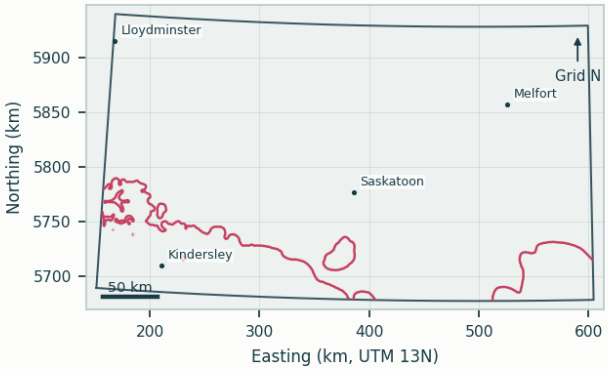
Three Forks (11 source features)



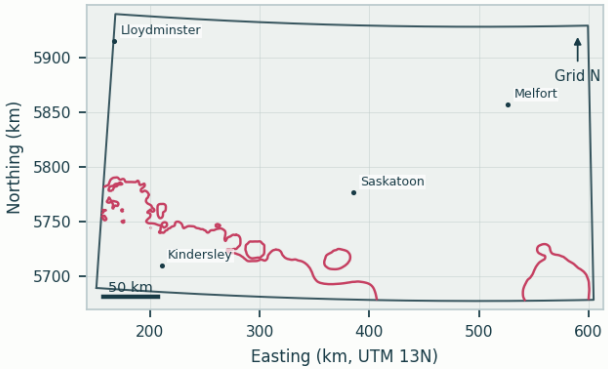
Upper Bakken (20 source features)



Middle Bakken (14 source features)



Lower Bakken (12 source features)



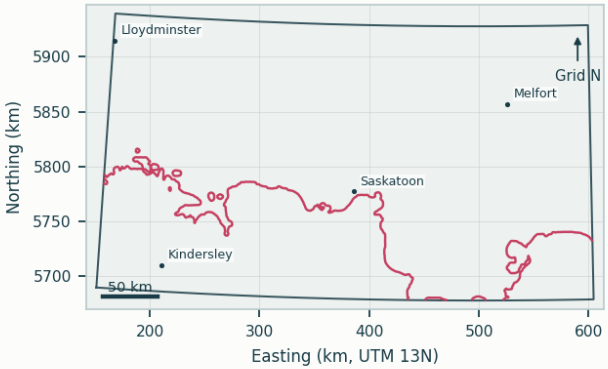
Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Coordinates transformed to EPSG:26913; linework clipped only at the study boundary.

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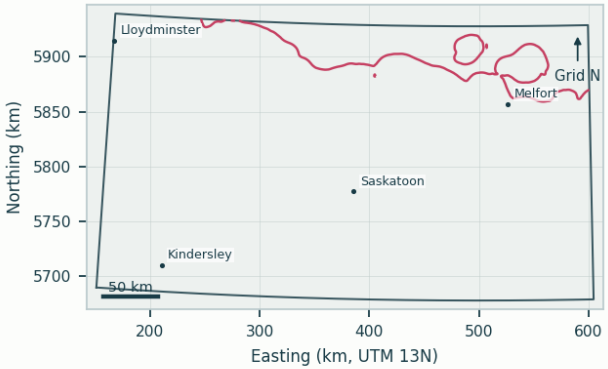
Independent published formation limits

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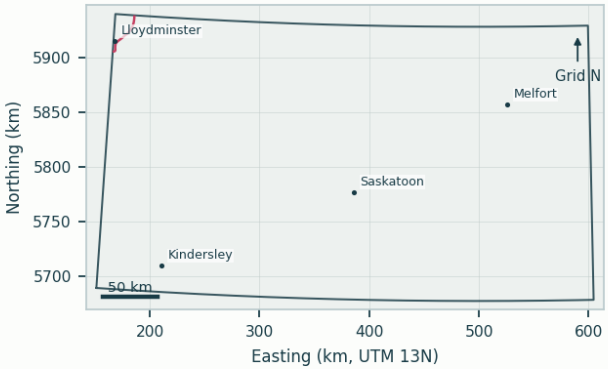
Big Valley Torquay (10 source features)



Saskatchewan (4 source features)



Meadow Lake (1 source features)



Source: Marsh & Love (2014), SGS OF 2014-1 [S02]. Coordinates transformed to EPSG:26913; linework clipped only at the study boundary.

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