

UTM Zone 15, NAD83  
The magnetic declination in 2012 at the centre of the map is 1°52' East, and annual change 7.6' West

Legend	
Archean	Granitoid intrusive rocks
	Pegmatite
	12
	11a
	11b
Mayville mafic-ultramafic intrusion	Tonalite, trondjemite, granodiorite: medium to coarse grained, locally porphyritic (biotite, ± amphibole); may postdate the Mayville intrusion
	10
	9
	8
	7
	6
Metasedimentary, metavolcanic and related intrusive rocks	Granodiorite, granite: fine to coarse grained, locally porphyritic (biotite, muscovite, eugarnet); probably postdate the Mayville intrusion
	5
	4
	3
	2
	2a
	1
Granitoid intrusive rocks (pre-dates Mayville mafic-ultramafic intrusions)	Maskwa Lake Batholith: medium to coarse grained, locally porphyritic granite, granodiorite, tonalite, and quartz diorite ( $2844 \pm 12$ Ma <sup>1</sup> , $2852.8 \pm 1.1$ Ma <sup>2</sup> )

Structural symbols	
/	Bedding: top unknown
/\	Dike
\/\	Flow contact: top unknown
\/\	Foliation: generation unknown
--	Fold axial trace
-	Fault: sense unknown
▲	Ore deposit
★	Mineralized occurrence
—	Igneous layering: top unknown
—	Shear zone: sense unknown, dextral
•	Limit of mapping
—	Powerline
—	Road: unpaved
...	Trail
+	Swamp

## Bedrock geology of the Cat Creek area, Bird River greenstone belt, southeastern Manitoba (part of NTS 52L12)

0 0.5 1 1.5 2 km  
1:12 500

### References:

- Černý, P., Trudeau, D.L., Zahirov, D.V., Goed, B.E. and Paul, B.J.: 1991, 'The Cat Lake-Winnipeg River and the Wukusko Lake pegmatite fields, Manitoba', Manitoba Energy and Mines, Mineral Resources Division, Economic Geology Report ER90-1, 216 p.
- Gibert, H. P.: 1987, 'Geology of the Bird River area, southeastern Manitoba (NTS 52L5)', Manitoba Geological Survey, Preliminary Map 2006-6, scale 1:20 000.
- Gibert, H. P. and Kremer, P.D.: 1990, 'Geology of the east part of the Bird River area, southeastern Manitoba', Manitoba Geological Survey, Preliminary Map 2005-6, scale 1:20 000.
- Gibert, H. P. and Kremer, P.D.: 1991, 'Geology of the west part of the Bird River area, southeastern Manitoba', Manitoba Geological Survey, Preliminary Map 2006-7, scale 1:20 000.
- Manitoba Energy and Mines 1987: Point du Bois, NTS 52L5, Manitoba Energy and Mines, Minerals Division, Geological Report 1987-1, 12 p.
- Manitoba Energy and Mines 1987: Point du Bois, NTS 52L5, Manitoba Energy and Mines, Minerals Division, Geological Report 1987-2, 12 p.
- Beaman, J. R., Yang, X. and Wang, X.: 1999, 'Field and lithochronological investigations of mafic and ultramafic rocks and associated Cu-Ni-PGE mineralization in the Bird River greenstone belt (parts of NTS 52L12, 52L13, 52L14, 52L15, 52L16, 52L17, 52L18, 52L19, 52L20, 52L21, 52L22, 52L23, 52L24, 52L25, 52L26, 52L27, 52L28, 52L29, 52L30, 52L31, 52L32, 52L33, 52L34, 52L35, 52L36, 52L37, 52L38, 52L39, 52L40, 52L41, 52L42, 52L43, 52L44, 52L45, 52L46, 52L47, 52L48, 52L49, 52L50, 52L51, 52L52, 52L53, 52L54, 52L55, 52L56, 52L57, 52L58, 52L59, 52L60, 52L61, 52L62, 52L63, 52L64, 52L65, 52L66, 52L67, 52L68, 52L69, 52L70, 52L71, 52L72, 52L73, 52L74, 52L75, 52L76, 52L77, 52L78, 52L79, 52L80, 52L81, 52L82, 52L83, 52L84, 52L85, 52L86, 52L87, 52L88, 52L89, 52L90, 52L91, 52L92, 52L93, 52L94, 52L95, 52L96, 52L97, 52L98, 52L99, 52L100, 52L101, 52L102, 52L103, 52L104, 52L105, 52L106, 52L107, 52L108, 52L109, 52L110, 52L111, 52L112, 52L113, 52L114, 52L115, 52L116, 52L117, 52L118, 52L119, 52L120, 52L121, 52L122, 52L123, 52L124, 52L125, 52L126, 52L127, 52L128, 52L129, 52L130, 52L131, 52L132, 52L133, 52L134, 52L135, 52L136, 52L137, 52L138, 52L139, 52L140, 52L141, 52L142, 52L143, 52L144, 52L145, 52L146, 52L147, 52L148, 52L149, 52L150, 52L151, 52L152, 52L153, 52L154, 52L155, 52L156, 52L157, 52L158, 52L159, 52L160, 52L161, 52L162, 52L163, 52L164, 52L165, 52L166, 52L167, 52L168, 52L169, 52L170, 52L171, 52L172, 52L173, 52L174, 52L175, 52L176, 52L177, 52L178, 52L179, 52L180, 52L181, 52L182, 52L183, 52L184, 52L185, 52L186, 52L187, 52L188, 52L189, 52L190, 52L191, 52L192, 52L193, 52L194, 52L195, 52L196, 52L197, 52L198, 52L199, 52L200, 52L201, 52L202, 52L203, 52L204, 52L205, 52L206, 52L207, 52L208, 52L209, 52L210, 52L211, 52L212, 52L213, 52L214, 52L215, 52L216, 52L217, 52L218, 52L219, 52L220, 52L221, 52L222, 52L223, 52L224, 52L225, 52L226, 52L227, 52L228, 52L229, 52L230, 52L231, 52L232, 52L233, 52L234, 52L235, 52L236, 52L237, 52L238, 52L239, 52L240, 52L241, 52L242, 52L243, 52L244, 52L245, 52L246, 52L247, 52L248, 52L249, 52L250, 52L251, 52L252, 52L253, 52L254, 52L255, 52L256, 52L257, 52L258, 52L259, 52L260, 52L261, 52L262, 52L263, 52L264, 52L265, 52L266, 52L267, 52L268, 52L269, 52L270, 52L271, 52L272, 52L273, 52L274, 52L275, 52L276, 52L277, 52L278, 52L279, 52L280, 52L281, 52L282, 52L283, 52L284, 52L285, 52L286, 52L287, 52L288, 52L289, 52L290, 52L291, 52L292, 52L293, 52L294, 52L295, 52L296, 52L297, 52L298, 52L299, 52L300, 52L301, 52L302, 52L303, 52L304, 52L305, 52L306, 52L307, 52L308, 52L309, 52L310, 52L311, 52L312, 52L313, 52L314, 52L315, 52L316, 52L317, 52L318, 52L319, 52L320, 52L321, 52L322, 52L323, 52L324, 52L325, 52L326, 52L327, 52L328, 52L329, 52L330, 52L331, 52L332, 52L333, 52L334, 52L335, 52L336, 52L337, 52L338, 52L339, 52L340, 52L341, 52L342, 52L343, 52L344, 52L345, 52L346, 52L347, 52L348, 52L349, 52L350, 52L351, 52L352, 52L353, 52L354, 52L355, 52L356, 52L357, 52L358, 52L359, 52L360, 52L361, 52L362, 52L363, 52L364, 52L365, 52L366, 52L367, 52L368, 52L369, 52L370, 52L371, 52L372, 52L373, 52L374, 52L375, 52L376, 52L377, 52L378, 52L379, 52L380, 52L381, 52L382, 52L383, 52L384, 52L385, 52L386, 52L387, 52L388, 52L389, 52L390, 52L391, 52L392, 52L393, 52L394, 52L395, 52L396, 52L397, 52L398, 52L399, 52L400, 52L401, 52L402, 52L403, 52L404, 52L405, 52L406, 52L407, 52L408, 52L409, 52L410, 52L411, 52L412, 52L413, 52L414, 52L415, 52L416, 52L417, 52L418, 52L419, 52L420, 52L421, 52L422, 52L423, 52L424, 52L425, 52L426, 52L427, 52L428, 52L429, 52L430, 52L431, 52L432, 52L433, 52L434, 52L435, 52L436, 52L437, 52L438, 52L439, 52L440, 52L441, 52L442, 52L443, 52L444, 52L445, 52L446, 52L447, 52L448, 52L449, 52L450, 52L451, 52L452, 52L453, 52L454, 52L455, 52L456, 52L457, 52L458, 52L459, 52L460, 52L461, 52L462, 52L463, 52L464, 52L465, 52L466, 52L467, 52L468, 52L469, 52L470, 52L471, 52L472, 52L473, 52L474, 52L475, 52L476, 52L477, 52L478, 52L479, 52L480, 52L481, 52L482, 52L483, 52L484, 52L485, 52L486, 52L487, 52L488, 52L489, 52L490, 52L491, 52L492, 52L493, 52L494, 52L495, 52L496, 52L497, 52L498, 52L499, 52L500, 52L501, 52L502, 52L503, 52L504, 52L505, 52L506, 52L507, 52L508, 52L509, 52L510, 52L511, 52L512, 52L513, 52L514, 52L515, 52L516, 52L517, 52L518, 52L519, 52L520, 52L521, 52L522, 52L523, 52L524, 52L525, 52L526, 52L527, 52L528, 52L529, 52L530, 52L531, 52L532, 52L533, 52L534, 52L535, 52L536, 52L537, 52L538, 52L539, 52L540, 52L541, 52L542, 52L543, 52L544, 52L545, 52L546, 52L547, 52L548, 52L549, 52L550, 52L551, 52L552, 52L553, 52L554, 52L555, 52L556, 52L557, 52L558, 52L559, 52L560, 52L561, 52L562, 52L563, 52L564, 52L565, 52L566, 52L567, 52L568, 52L569, 52L570, 52L571, 52L572, 52L573, 52L574, 52L575, 52L576, 52L577, 52L578, 52L579, 52L580, 52L581, 52L582, 52L583, 52L584, 52L585, 52L586, 52L587, 52L588, 52L589, 52L590, 52L591, 52L592, 52L593, 52L594, 52L595, 52L596, 52L597, 52L598, 52L599, 52L600, 52L601, 52L602, 52L603, 52L604, 52L605, 52L606, 52L607, 52L608, 52L609, 52L610, 52L611, 52L612, 52L613, 52L614, 52L615, 52L616, 52L617, 52L618, 52L619, 52L620, 52L621, 52L622, 52L623, 52L624, 52L625, 52L626, 52L627, 52L628, 52L629, 52L630, 52L631, 52L632, 52L633, 52L634, 52L635, 52L636, 52L637, 52L638, 52L639, 52L640, 52L641, 52L642, 52L643, 52L644, 52L645, 52L646, 52L647, 52L648, 52L649, 52L650, 52L651, 52L652, 52L653, 52L654, 52L655, 52L656, 52L657, 52L658, 52L659, 52L660, 52L661, 52L662, 52L663, 52L664, 52L665, 52L666, 52L667, 52L668, 52L669, 52L670, 52L671, 52L672, 52L673, 52L674, 52L675, 52L676, 52L677, 52L678, 52L679, 52L680, 52L681, 52L682, 52L683, 52L684, 52L685, 52L686, 52L687, 52L688, 52L689, 52L690, 52L691, 52L692, 52L693, 52L694, 52L695, 52L696, 52L697, 52L698, 52L699, 52L700, 52L701, 52L702, 52L703, 52L704, 52L705, 52L706, 52L707, 52L708, 52L709, 52L710, 52L711, 52